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Preface

This digest contains statistical data and estimates complementing volume I of the study "The petrochemical industry in developing countries - prospects and strategies", Sectoral Studies Series No. 20, UNIDO/IS.572, October 1985. The United Nations Statistical Office (UNSO) in New York is the main source for the statistical data on both production and trade. The UNIDO secretariat, however, supplements these data through additional primary information or own estimates to achieve a sufficiently detailed picture of the sector. Each set of tables is preceded by a short text describing the content of the tables and how it was derived.

It should be noted that this digest does more than just reproduce sectoral statistics available elsewhere. It presents quantitative information in an economic context and gives a condensed view of who does what in the sector, what the major inputs are, what the economic connections to other sectors are, where the products are sold, where the main raw materials come from, and how the world market price indices have developed. In certain tables, estimates for the current year are given. By presenting a global overview disaggregated by major economic regions, the digest gives the industrial planner a view of the geographical changes that have occurred and are happening. More significantly, it provides an understanding for what the variation in certain technologically interesting and economically important parameters can be in practice. This information ought to assist both research into the sector and the formulation of industrialization and marketing strategies.

The basic format of the digest remains essentially the same from sector to sector, thus facilitating intrasectoral comparisons and analyses. In addition, occasional tables are added when the information is available and thought to be of interest to the reader.

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EXPLANATORY NOTES

References to dollars ($) are to United States dollars, unless otherwise stated.

... indicates that data are not available or are not separately reported;
- indicates that the amount is nil or negligible;
blank indicates that the item is not applicable;

In tables totals may not add exactly because of rounding.

Abbreviations

CPE Centrally planned economies;

ISIC International Standard Industrial Classification;

NES Not elsewhere specified;

ODME Other Developed Market Economies;

SITC Standard International Trade Classifications;

UNSO United Nations Statistical Office

Country Groupings

Developing countries:

Latin America:	South and Central America and the Caribbean, except Puerto Rico and the U.S. Virgin Islands
Tropical Africa:	All of Africa South of the Sahara, except for the Sudan and the Republic of South Africa
North Africa:	Rest of Africa except for the Republic of South Africa
West Asia:	The Arab countries of Asia, and Iran, Turkey and Cyprus
South Asia:	Afghanistan, Bangladesh, Bhutan, Burma, India, Nepal, Pakistan, Sri Lanka
East Asia (Mfg):	The area of Hong Kong, Republic of Korea, Philippines, Singapore, Thailand
Southeast Asia:	Rest of Asia except CPE Asia, Taiwan Province of China and Japan, plus the South Pacific Islands

Centrally planned economies:

Asian:	**People's Republic of China, Democratic Kampuchea, Democratic People's Republic of Korea, People's Democratic Republic of Lao, Mongolia, Vietnam**
European:	**Albania, Bulgaria, Czechoslovakia, German Democratic Republic, Hungary, Poland, Romania, USSR**

Developed market economies:

North America:	**Canada, United States and United States Territories**
West Europe (North):	**Austria, Belgium, Denmark, Federal Republic of Germany, Finland, France, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Sweden, Switzerland, United Kingdom**
West Europe (South):	**Greece, Malta, Portugal, Spain, Yugoslavia, Israel**
Japan	**Japan**
Other:	**Australia, New Zealand, Republic of South Africa**

INTRODUCTION

In presenting a statistical picture of the petrochemical sector, major problems are encountered because of the lack of a generally accepted definition of the various product groups that would correspond to readily available and global sources of statistical data. This has necessitated both provisional definitions and estimates and judgements on the part of UNIDO. The methods of constructing these estimates and the assumptions are explicitly stated in the preamble to each set of tables in order to explain the conceptual basis of the presented data.

This digest deals with six categories of petrochemical products, namely synthetic rubbers, synthetic fibers, organic petrochemicals, plastics and synthetic resins, carbon black, and surfactants. This classification corresponds closely to the 4-digit SIC classification employed in the United States. Particularly the category "Organic Petrochemicals" is very large and contains rather diverse products. However, while both the 6-digit ISIC codes and the SITC Rev. 2 codes would permit a further disaggregation, the SITC Rev.1 codes are not so structured. Hence, since Rev.1 data have to be used because of a much poorer reporting under Rev.2, the aggregate "Organic Petrochemicals" must also be used for the time being.

In terms of the International Standard Industrial Classification (ISIC) and the Standard International Trade Classification Rev. 1 (SITC) schemes, the above six categories fall into the product groups shown below:

Product Group	SITC (Rev. 1) Code	ISIC Code
1. Synthetic rubbers	231.2 599.76	3513.01
2. Synthetic fibers	266.2 excl. 266.23 266.3 excl. 266.33	3513.37 3513.04

3. Organic petrochemicals	512 599.75	3511.03 3511.05 3511.07 3511.09 3511.10 3511.11 3511.13 3511.14 3511.15 3511.17 3511.18 3511.19 3511.21 3511.22 3511.23 3511.25 3511.26 3511.27 3511.29 3511.30 3511.31 3511.33 3511.34 3511.35 3511.37 3511.38 3511.42 3511.43
4. Plastics and synthetic resins	581 excl. (581.3 581.91 & 581.92)	3513.10 3513.13 3513.16 3513.19 3513.22 3513.25 3513.28
5. Carbon black	513.27	3529.01
6. Surfactants	554.2	3523.04

The petrochemical industry constitutes a major manufacturing sector in many economies. To illustrate its relative position, the tables in this introduction show the petrochemical sector in relation to total production and trade in the regional economies. The shares of petrochemicals in total GDP have been estimated from the gross output values of the A-tables and using the following average value added/gross output ratios:

(a)	Synthetic rubber	.31
(b)	Synthetic fibres	.18
(c)	Organic petrochemicals	.35
(d)	Plastics and synthetic resins	.37
(e)	Carbon black	.38
(f)	Surfactants	.43

Section A of the digest contains summary tables of estimated production and trade by product group and UNITAD region, and gives shares and growth rates based on the same data. For any given product group, the tables are presented on the same page to facilitate a meaningful comparison of the absolute and the relative information. Section A also contains UNIDO estimates of the 1985 figures. They are based on long term projection models for this sector. Essentially, they show what the regional production and trade in petrochemical products would be in 1985, were the economic and other structures of the sixties through the early eighties to prevail.

Table I.01.a. Structure of gross domestic product(GDP) by major industrial group, 1975
(Per cent of world total, world in constant 1975 million US dollars)

Region	US dollars	Percent							
	Total GDP	Petro-chemicals	Other chemicals	Mfg excl. chemicals	Agriculture	Mining	Utilities	Construction	Services
WORLD	6,000,335	0.6	1.8	26.2	9.5	4.2	2.3	7.2	47.8
DEVELOPED MARKET ECONOMIES	4,138,816	0.8	1.4	25.1	4.7	2.0	2.7	7.0	56.0
North America	1,711,623	0.8	1.3	21.2	3.5	2.7	2.7	5.0	62.3
Europe North	1,599,206	0.7	1.7	28.8	4.8	1.2	2.9	8.0	51.7
Europe South	182,828	0.5	1.9	24.5	12.1	1.7	2.4	9.0	47.5
Japan	498,718	1.2	0.6	27.9	5.5	0.5	2.0	9.8	52.0
Other developed	146,441	0.1	1.2	22.0	6.9	6.1	2.7	7.3	53.3
DEVELOPING COUNTRIES	904,764	0.2	1.4	16.1	19.8	13.1	1.2	5.7	42.1
Latin America	357,036	0.4	2.2	22.1	11.9	4.3	1.6	5.6	51.5
Tropical Africa	96,564	-	0.6	7.9	32.7	12.8	0.9	6.7	36.0
North Africa	58,834	0.1	0.7	9.1	17.3	21.2	1.2	8.9	41.2
West Asia	163,401	0.1	0.8	10.3	10.7	42.5	0.9	5.0	29.3
South Asia	122,316	0.1	1.2	14.3	41.2	1.1	1.2	4.8	35.8
East Asia (Mfg)	64,733	0.5	1.1	22.1	22.4	1.3	1.3	5.5	45.4
Southeast Asia	41,860	-	0.6	12.8	29.7	15.8	0.8	4.4	35.5
CENTRALLY PLANNED ECONOMIES	956,755	0.4	3.0	41.0	20.2	5.6	1.8	9.9	17.7
European	798,214	0.4	2.9	43.5	16.0	5.6	1.5	10.9	18.8
Asian	158,541	0.1	3.8	28.2	41.5	5.4	3.6	4.6	12.4
NES	-	-	-	-	-	-	-	-	-

Source: UNIDO database with the exception of CPE Asia which has been estimated from various official sources

Table I.01.b. Structure of imports from world by major industrial grouping (SITCs), 1975
(Per cent, world also in constant 1975 million US dollars)

Importing region	US dollars Total imports (all SITCs)	Petro-chemicals (see Intro)	Other chemicals (5)	Agro-food industry (0,1,4)	Crude materials (2,3)	Manufactured goods (6,8)	Machinery, transport (7)	Other (9)
				Per cent				
WORLD	880,156	3.5	3.8	13.5	28.7	24.1	25.2	1.2
DEVELOPED MARKET ECONOMIES	601,541	3.6	3.1	12.9	30.8	24.6	23.7	1.3
North America	129,844	1.9	2.4	10.0	29.3	23.4	30.8	2.2
Europe North	355,182	4.4	3.3	14.0	26.8	27.8	22.4	1.2
Europe South	37,981	5.2	3.6	12.4	31.4	20.6	26.6	0.2
Japan	57,805	1.3	2.4	15.0	64.8	9.5	6.5	0.4
Other developed	20,728	5.1	3.9	5.3	13.0	27.5	43.7	1.5
DEVELOPING COUNTRIES	180,567	3.8	6.1	14.9	18.9	24.2	31.4	0.7
Latin America	54,249	5.3	6.5	9.8	27.0	20.5	30.6	0.2
Tropical Africa	18,512	2.2	7.7	13.6	12.1	29.7	34.1	0.6
North Africa	18,499	2.6	5.5	24.2	9.2	26.1	31.9	0.6
West Asia	37,036	2.6	4.6	14.9	8.5	29.3	39.2	0.8
South Asia	10,161	3.3	12.3	31.9	15.6	17.7	18.4	0.9
East Asia (Mfg)	29,980	4.6	4.1	13.0	29.7	22.4	24.9	1.3
Southeast Asia	12,131	3.8	7.6	15.5	14.9	24.4	33.3	0.6
CENTRALLY PLANNED ECONOMIES	67,065	3.2	5.0	17.2	13.2	27.8	33.2	0.4
European	59,862	3.0	4.8	17.7	13.4	27.1	33.6	0.4
Asian	7,204	4.6	7.0	12.8	11.6	33.6	29.9	0.5
NES	30,982	0.2	0.8	8.8	77.5	6.1	1.6	4.9

Table I.01.c. Structure of exports to world by major industrial grouping (SITCs), 1975
(Per cent, world also in constant 1975 million US dollars)

Exporting region	US dollars Total imports (all SITCs)	Petro-chemicals (see Intro)	Other chemicals (5)	Agro-food industry (0,1,4)	Crude materials (2,3)	Manufactured goods (6,8)	Machinery, transport (7)	Other (9)
				Per cent				
WORLD	835,654	3.4	3.6	12.9	27.3	24.3	27.3	1.1
DEVELOPED MARKET ECONOMIES	573,922	4.8	4.4	12.2	11.1	29.5	36.6	1.4
North America	133,981	3.6	3.6	16.2	18.9	16.6	39.7	1.4
Europe North	344,262	5.6	5.1	10.5	8.5	32.8	36.3	1.3
Europe South	18,010	2.7	4.4	19.9	8.7	43.5	20.2	0.4
Japan	54,579	4.7	1.9	1.4	1.7	39.5	49.6	1.3
Other developed	23,089	0.7	3.2	35.4	30.2	20.5	4.9	5.2
DEVELOPING COUNTRIES	212,801	0.3	1.3	14.9	70.0	10.2	2.9	0.4
Latin America	44,798	0.8	2.8	36.6	44.7	10.6	4.1	0.5
Tropical Africa	19,780	0.1	0.8	24.1	62.8	10.7	1.2	0.4
North Africa	15,528	-	1.3	6.5	87.0	4.6	0.5	0.1
West Asia	91,327	0.1	0.7	1.4	95.4	1.6	0.7	-
South Asia	6,626	0.4	1.8	36.5	18.6	36.9	5.0	0.9
East Asia (Mfg)	19,921	0.7	1.2	18.9	20.3	43.7	13.6	1.6
Southeast Asia	14,822	0.2	0.4	13.8	71.7	10.8	2.7	0.4
CENTRALLY PLANNED ECONOMIES	47,088	1.5	4.9	12.6	30.1	25.4	25.1	0.3
European	41,131	1.6	5.0	9.9	30.9	24.0	28.2	0.3
Asian	5,957	1.0	3.9	31.1	24.8	35.1	3.7	0.4
NES	1,843	0.7	1.6	14.9	49.6	14.4	6.2	12.6

Table I.02.a. Structure of gross domestic product(GDP) by major industrial group, 1980
(Per cent of world total, world in constant 1975 million US dollars)

Region	US dollars	Percent							
	Total GDP	Petro-chemicals	Other chemicals	Mfg excl. chemicals	Agriculture	Mining	Utilities	Construction	Services
WORLD	7,234,393	0.7	1.8	27.0	8.5	3.9	2.3	6.7	48.7
DEVELOPED MARKET ECONOMIES	4,889,894	0.9	1.5	25.1	4.2	2.0	2.6	6.2	57.1
North America	2,016,930	1.0	1.5	21.2	3.0	2.6	2.6	4.6	63.1
Europe North	1,853,905	0.8	1.7	27.6	4.5	1.6	3.0	7.0	53.6
Europe South	213,546	0.7	2.1	24.1	11.6	1.6	2.5	7.7	49.3
Japan	636,983	1.2	0.9	31.3	3.9	0.5	1.8	8.3	51.8
Other developed	168,530	0.1	1.3	21.3	6.6	6.0	3.0	6.3	54.8
DEVELOPING COUNTRIES	1,156,862	0.3	1.5	17.0	17.6	10.5	1.6	6.3	44.8
Latin America	467,588	0.5	2.4	22.1	10.9	3.8	2.0	5.8	52.1
Tropical Africa	117,337	-	0.5	8.6	28.0	14.5	1.3	7.8	38.9
North Africa	83,729	0.1	0.7	9.9	13.5	19.3	1.5	9.5	45.1
West Asia	181,504	0.1	0.8	10.2	11.7	32.5	1.2	6.6	36.6
South Asia	149,010	0.2	1.4	15.0	37.0	1.1	1.4	4.7	38.8
East Asia (Mfg)	97,024	0.9	1.0	25.6	17.1	1.3	1.5	6.6	45.7
Southeast Asia	60,670	0.1	0.8	15.2	25.6	14.0	1.0	5.3	37.6
CENTRALLY PLANNED ECONOMIES	1,187,637	0.5	3.2	44.5	17.1	5.3	2.0	9.3	17.7
European	978,305	0.4	3.1	46.5	13.0	5.3	1.6	10.3	19.3
Asian	209,332	0.3	3.9	35.4	36.0	5.5	3.8	4.7	10.0
NES	-	-	-	-	-	-	-	-	-

Source: UNIDO database with the exception of CPE Asia which has been estimated from various official sources

Table I.02.b. Structure of imports from world by major industrial grouping (SITCs), 1980
(Per cent, world also in constant 1975 million US dollars)

Importing region	US dollars Total imports (all SITCs)	Petro-chemicals (see Intro)	Other chemicals (5)	Agro-food industry (0,1,4)	Crude materials (2,3)	Manufactured goods (6,8)	Machinery, transport (7)	Other (9)
				Per cent				
WORLD	1,144,254	4.2	3.8	12.5	22.1	26.8	28.1	2.5
DEVELOPED MARKET ECONOMIES	794,484	4.4	3.3	11.4	25.1	27.7	26.4	1.8
North America	169,425	1.9	2.9	9.4	24.4	25.2	34.3	1.9
Europe North	486,579	5.2	3.5	12.2	21.0	31.4	25.4	1.4
Europe South	43,688	6.4	3.5	11.0	30.8	20.1	27.9	0.3
Japan	68,037	2.2	3.2	13.3	58.4	13.7	8.3	0.8
Other developed	26,756	6.1	3.1	4.6	10.1	23.2	39.1	13.8
DEVELOPING COUNTRIES	248,588	4.2	5.0	13.9	15.8	25.6	34.3	1.2
Latin America	67,674	5.7	5.9	12.3	18.4	20.7	35.7	1.1
Tropical Africa	24,551	2.8	7.2	15.6	8.9	25.5	38.6	1.4
North Africa	19,874	3.0	4.9	22.0	9.1	26.7	33.1	1.2
West Asia	59,223	2.5	4.1	14.8	8.3	32.2	37.6	0.6
South Asia	13,022	4.1	8.6	15.6	24.4	22.8	24.2	0.2
East Asia (Mfg)	49,105	4.9	3.2	10.2	25.5	25.7	28.0	2.5
Southeast Asia	15,138	5.3	4.4	13.9	14.4	22.9	38.4	0.7
CENTRALLY PLANNED ECONOMIES	79,339	4.0	5.4	19.6	13.6	24.2	32.6	0.6
European	66,981	3.5	5.7	19.9	13.1	23.9	33.3	0.6
Asian	12,358	6.7	3.7	18.0	16.3	25.6	29.1	0.8
NES	21,842	0.5	2.1	12.4	15.1	16.5	2.9	50.3

Table I.02.c. Structure of exports to world by major industrial grouping (SITCs), 1980
(Per cent, world also in constant 1975 million US dollars)

Exporting region	US dollars Total imports (all SITCs)	Petro-chemicals (see Intro)	Other chemicals (5)	Agro-food industry (0,1,4)	Crude materials (2,3)	Manufactured goods (6,8)	Machinery, transport (7)	Other (9)
				Per cent				
WORLD	1,092,190	4.1	3.8	12.0	21.6	26.7	29.4	2.4
DEVELOPED MARKET ECONOMIES	787,872	5.4	4.3	11.2	9.8	30.1	36.6	2.5
North America	167,559	4.7	4.2	15.0	16.1	18.7	40.1	1.1
Europe North	473,799	6.4	4.9	10.2	8.4	33.1	35.4	1.6
Europe South	28,609	3.6	5.2	16.8	7.7	43.9	22.3	0.4
Japan	80,794	3.5	1.1	1.3	1.2	35.0	56.8	1.0
Other developed	37,111	0.6	2.6	23.7	20.8	22.3	3.6	26.3
DEVELOPING COUNTRIES	239,675	0.6	1.8	15.6	58.6	15.8	6.3	1.2
Latin America	56,377	1.2	3.0	34.6	36.1	15.6	8.3	1.1
Tropical Africa	20,869	0.1	1.1	24.2	59.5	12.2	1.1	1.9
North Africa	18,382	0.3	1.9	4.9	87.7	4.3	0.6	0.2
West Asia	77,757	0.1	1.1	2.1	92.3	2.9	1.4	0.2
South Asia	7,849	0.6	2.3	28.6	18.2	44.1	5.8	0.5
East Asia (Mfg)	38,371	1.2	2.5	13.4	12.8	46.0	19.7	4.3
Southeast Asia	20,071	0.3	0.2	14.7	67.3	11.7	5.4	0.3
CENTRALLY PLANNED ECONOMIES	59,773	1.9	5.4	8.8	28.6	26.8	28.1	0.5
European	50,300	1.8	5.6	6.8	29.3	23.4	32.7	0.5
Asian	9,473	2.4	4.5	19.3	25.0	44.8	3.6	0.4
NES	4,871	0.3	0.6	3.4	26.0	6.2	4.1	59.5

Table I.03.a. Structure of gross domestic product(GDP) by major industrial group, 1981
(Per cent of world total, world in constant 1975 million US dollars)

Region	US dollars	Percent							
	Total GDP	Petro-chemicals	Other chemicals	Mfg excl. chemicals	Agriculture	Mining	Utilities	Construction	Services
WORLD	7,339,222	0.7	1.8	26.9	8.5	3.7	2.3	6.6	49.0
DEVELOPED MARKET ECONOMIES	4,958,601	0.9	1.5	24.8	4.3	2.0	2.6	6.1	57.3
North America	2,065,480	1.0	1.5	21.5	3.3	2.6	2.6	4.5	62.5
Europe North	1,846,938	0.8	1.6	26.8	4.5	1.6	2.9	6.8	54.6
Europe South	215,335	0.8	2.1	24.0	11.0	1.6	2.5	7.6	50.0
Japan	657,059	1.1	0.9	31.0	3.8	0.5	1.8	8.5	51.9
Other developed	173,769	0.1	1.3	21.2	6.7	5.8	3.1	6.4	55.0
DEVELOPING COUNTRIES	1,167,063	0.3	1.6	16.9	18.0	9.0	1.6	6.3	45.9
Latin America	473,607	0.5	2.5	21.1	11.3	3.8	2.0	5.8	52.6
Tropical Africa	115,840	-	0.6	8.9	28.9	12.0	1.4	8.0	39.9
North Africa	81,013	0.1	0.8	10.6	13.4	15.2	1.6	9.5	48.3
West Asia	169,883	0.1	0.9	10.5	12.2	28.8	1.2	6.6	39.3
South Asia	156,918	0.2	1.5	15.1	36.4	1.2	1.4	4.8	39.1
East Asia (Mfg)	104,801	0.9	1.0	25.8	17.6	1.2	1.5	6.3	45.4
Southeast Asia	65,001	0.1	0.8	15.1	24.5	13.3	1.0	5.3	39.5
CENTRALLY PLANNED ECONOMIES	1,213,558	0.5	3.2	44.8	16.8	5.2	2.0	9.2	17.9
European	997,949	0.4	3.2	46.8	12.8	5.1	1.6	10.1	19.5
Asian	215,609	0.4	3.9	35.6	35.5	5.5	3.8	4.8	10.1
NES	-	-	-	-	-	-	-	-	-

Source: UNIDO database with the exception of CPE Asia which has been estimated from various official sources

Table I.03.b. Structure of imports from world by major industrial grouping (SITCs), 1983
(Per cent, world also in constant 1975 million US dollars)

Importing region	US dollars: Total imports (all SITCs)	Petro-chemicals (see Intro)	Other chemicals (5)	Agro-food industry (0,1,4)	Crude materials (2,3)	Manufactured goods (6,8)	Machinery, transport (7)	Other (9)
		Percent						
WORLD	1,043,691	5.2	2.8	13.5	18.7	27.8	30.3	1.7
DEVELOPED MARKET ECONOMIES	761,910	5.2	2.5	12.9	21.9	27.8	28.1	1.6
North America	200,798	2.7	2.3	9.6	16.8	28.0	38.2	2.4
Europe North	429,035	6.4	2.5	14.2	19.6	30.3	25.6	1.5
Europe South	41,115	7.4	2.0	12.6	30.9	20.7	25.7	0.7
Japan	68,229	3.3	3.0	16.7	51.7	15.1	9.0	1.1
Other developed	22,733	6.6	3.6	6.1	6.3	28.2	47.8	1.5
DEVELOPING COUNTRIES	230,785	5.0	3.4	14.2	10.4	27.1	37.9	1.9
Latin America	39,472	7.7	4.8	17.0	9.0	20.2	38.4	2.9
Tropical Africa	17,401	3.3	5.4	20.2	6.0	23.4	39.1	2.7
North Africa	23,680	3.1	3.4	21.6	6.2	26.5	38.4	0.8
West Asia	64,001	3.4	2.9	11.8	5.4	32.4	42.1	2.0
South Asia	12,140	5.6	4.2	17.0	12.0	25.8	34.2	1.2
East Asia (Mfg)	54,907	5.6	2.4	11.0	18.7	29.8	30.9	1.7
Southeast Asia	19,185	5.9	3.3	9.9	15.0	21.3	43.1	1.6
CENTRALLY PLANNED ECONOMIES	49,183	5.5	4.5	20.7	8.2	31.2	28.5	1.4
European	38,441	4.7	4.8	22.3	8.1	29.0	29.7	1.4
Asian	10,741	8.4	3.7	14.8	8.7	39.2	24.0	1.3
NES	1,814	0.6	8.1	17.6	14.6	30.9	12.2	15.9

Table I.03.c. Structure of exports to world by major industrial grouping (SITCs), 1983
(Per cent, world also in constant 1975 million US dollars)

Exporting region	US dollars: Total imports (all SITCs)	Petro-chemicals (see Intro)	Other chemicals (5)	Agro-food industry (0,1,4)	Crude materials (2,3)	Manufactured goods (6,8)	Machinery, transport (7)	Other (9)
		Percent						
WORLD	983,421	5.1	2.9	13.4	18.2	27.8	31.1	1.5
DEVELOPED MARKET ECONOMIES	757,605	6.1	3.3	12.1	10.1	29.5	37.4	1.5
North America	172,657	4.7	3.6	16.6	15.6	16.7	41.8	1.1
Europe North	439,393	7.6	3.7	11.7	9.2	32.4	33.6	1.9
Europe South	30,214	4.0	3.9	17.6	7.6	43.9	22.4	0.5
Japan	97,610	3.5	0.5	1.1	0.9	35.7	57.3	1.0
Other developed	17,733	1.1	6.1	29.3	35.7	22.9	3.5	1.5
DEVELOPING COUNTRIES	186,372	1.1	1.0	19.2	46.7	20.8	9.7	1.4
Latin America	52,129	2.2	1.6	35.5	33.5	16.4	9.6	1.2
Tropical Africa	14,423	0.1	1.7	30.4	54.2	11.6	1.4	0.6
North Africa	12,388	0.6	2.3	4.9	84.5	6.1	1.2	0.4
West Asia	37,461	0.4	0.1	5.4	84.4	6.9	2.2	0.5
South Asia	7,527	0.3	0.7	23.6	21.2	51.4	2.1	0.6
East Asia (Mfg)	42,972	1.6	0.9	13.5	13.8	43.6	23.2	3.4
Southeast Asia	19,472	0.2	0.5	13.4	62.3	13.5	8.8	1.3
CENTRALLY PLANNED ECONOMIES	38,371	3.3	4.2	12.6	37.7	29.1	12.2	0.9
European	27,412	3.8	4.4	9.8	43.3	21.9	15.7	1.0
Asian	10,959	2.2	3.5	19.5	23.8	46.9	3.4	0.6
NES	1,072	0.3	2.5	2.2	56.3	9.5	9.4	19.7

Consequently, the actual 1985 figures, when they become known, may differ significantly from those presented here because of business cycles and other short term phenomena. Nonetheless, it is believed that a useful purpose is served by presenting these 1985 estimates since the latest year for which complete actual data are available is 1981 in case of production and 1983 in case of external trade.

Akin to the economist's production function, section B of this digest shows the amounts of major inputs - labour, capital and energy - used to generate a unit of value added in chemicals and petrochemicals by product group for selected regions or countries for which reasonably complete information exists. Further details are given in the preamble to section B.

Section C gives the input/output relationships between the chemical and the petrochemical sectors and the other sectors in the economy as well as the value added/gross output ratios.

The tables in section D show the total exports and the major markets for the principal exporters of petrochemical products in the world. Section E then gives the international sources of certain major raw materials or intermediate products used in the petrochemical sector.

Section F gives world export and import price and quantity indices of the chain-linked Fisher type, calculated by UNIDO. They are based on external trade unit values which have been screened for consistency in terms of reported units of measurement and in terms of reporting of both value and quantity.

As far as the petrochemical sector as a whole is concerned, there is only relatively little published statistical material that is either global in coverage or internally consistent from one economy to another. This, of course, has necessitated the usage of many different sources of data, technological relationships and at times quite strong assumptions in order to arrive at initial estimates. In particular, data on value added or gross

output in the various product categories are often missing. However, the UNSO data base contains fairly good information on the quantitites produced. Therefore, by aggregation over subgroups and countries, regional estimates of the total quantities produced of the six product groups could be derived. But, because of much inconsistency in the reporting, the value of this production could not be determined from the available statistics. Instead, the value figures were calculated by multiplying the regional quantitites by estimated world market prices (in 1975 dollars); the resulting production value figures can therefore be said to represent the value of the production evaluated at 1975 world prices. Conceptually, they correspond most closely to so called gross output values. The final estimates in the tables of this digest may or may not be very accurate but they are comprehensive and internally consistent.

The regional breakdown is done according to the regions of the UNITAD model, a joint UNIDO/UNCTAD framework for exploring prospective long term changes in the world economy. This is standard practice in the Sectoral Studies Series.

Section A

Production and trade by product group and region, 1975, 1980 and estimated 1985 (constant 1975 million US dollars)

The trade data in these tables are based upon information from the UN Statistical Office (UNSO), complemented by estimates of missing values and adjustments done by the UNIDO secretariat. The original figures in current values have been deflated using the export price indices in section F to express the data in constant 1975 United States dollars. The estimated 1985 figures result from long term projection models of trade based on past trends and on the estimated growth in total manufacturing in the UNITAD model's Reference Scenario. The production values in the A-tables have been derived using the procedure described below.

Chart A.1. UNITAD reference scenario annual real growth rates for manufacturing (per cent), 1985, ..., 1990)

UNITAD Region	Annual Growth Rate (per cent)
1. North America	4.57
2. W. Europe North	3.19
3. W. Europe South	3.19
4. Japan	4.49
5. ODME	4.06
6. Latin America	4.28
7. Tropical Africa	4.39
8. North Africa	4.00
9. West Asia	4.00
10. South Asia	7.23
11. East Asia (Mfg)	9.57
12. Southeast Asia	7.57
13. CPE Europe	4.58
14. CPE Asia	6.86

The 1985 estimations being based upon long term models are statistical expectations of regional trade and production. As such they are conditional on the economic and other structures of the sixties through the early eighties. Actual 1985 figures may, however, differ significantly from the projections because of business cycles and other short term phenomena.

In the introduction above, the six petrochemical product groups were defined in terms of SITC and 6-digit ISIC codes. For the external trade, data on both quantities and dollar volumes exist in the UNSO Commodity Trade Statistics data base. However, on the production side only quantity data are available on the 6-digit ISIC level whereas for the purpose of economic analysis, data in value terms are also necessary.

The UNIDO industrial statistics data base gives value added figures only at the 3-digit ISIC level. At that level of aggregation, the groups containing the petrochemicals (ISIC 351 and 352) also contain an unknown volume of value added stemming from the production of non-petrochemicals. The problem becomes that of disaggregating the total value added for ISIC 351 and 352 into parts corresponding to our definition of the six petrochemical product groups. One way of doing this would be to divide the total value in proportion to the respective quantities duly weighted by their prices.

This approach, however, failed because of the unavailability of sufficiently detailed, country-and product-specific prices. A trial using unit prices derived from international exports led to final estimates of the value of the production that were far off from the actual figures in those instances where the latter were known to UNIDO.

Instead, regional aggregates of quantities produced were computed from the UNSO Commodity Production Statistics tapes by summing over countries and 6-digit ISIC codes according to the definition of petrochemical product groups given above in the Introduction. These quantities corresponded well to independently known tonnage figures for certain countries and product groups. Next, these regional quantities were multiplied by the approximate world market prices in 1975 dollars, given in chart A.2 below.

Chart A.2. World market prices (constant 1975 dollars per ton)

1.	Synthetic rubbers	860
2.	Synthetic fibers	1,550
3.	Organic petrochemicals	700
4.	Plastics and synthetic resins	800
5.	Carbon black	470
6.	Surfactants	800

Source: UNSO Commodity Trade Statistics and UNIDO estimates.

The so derived value figures can be said to constitute estimates of the regional production evaluated at 1975 world market prices. They correspond most closely to the concept of gross output. Again a check against independent statistics for the gross output value in the US and Japan shows that the derived valuations are close enough to be useful estimates of the otherwise unknown and elusive true figures. They are entered under the "Production" columns of the A-tables and can, with caution, be combined with the external trade figures to yield estimates of the apparent consumption of petrochemical products.

Table A.01.1. Production of and trade in all petrochemical products, 1975, 1980 and estimated 1985
(Constant 1975 thousand US dollars)

Region	Production			Imports			Exports		
	1975	1980	1985	1975	1980	1985	1975	1980	1985
TOTAL	114,638,107	157,783,841	192,882,361	30,757,403	48,233,643	52,806,476	28,814,392	44,922,183	46,573,161
DEVELOPED MARKET ECONOMIES	98,306,154	131,099,654	156,891,889	21,702,395	34,713,635	35,566,718	27,454,110	42,422,209	43,119,014
North America	43,984,623	61,857,726	76,165,470	2,403,769	3,298,206	4,868,497	4,833,573	7,834,815	8,339,064
Europe North	33,092,611	41,342,311	44,753,058	15,492,109	25,456,074	23,793,864	19,433,214	30,454,779	29,130,276
Europe South	2,529,196	4,526,823	5,476,455	1,992,975	2,800,334	3,299,675	492,042	1,041,702	1,037,781
Japan	18,180,226	22,733,522	29,720,851	752,864	1,530,092	1,858,713	2,541,495	2,864,429	4,314,240
Other developed	519,498	639,272	776,055	1,060,679	1,623,928	1,745,969	153,786	226,483	297,653
DEVELOPING COUNTRIES	6,102,172	11,792,263	16,406,627	6,914,914	10,351,689	13,942,532	651,067	1,376,481	2,126,446
Latin America	3,970,822	6,974,592	7,855,240	2,879,103	3,880,944	3,804,684	356,225	681,108	816,759
Tropical Africa	10,643	16,562	22,909	411,669	684,456	872,763	13,502	12,614	21,592
North Africa	80,744	183,561	243,199	481,747	598,337	929,533	4,695	55,416	63,636
West Asia	369,986	583,022	1,023,923	964,482	1,451,248	2,017,228	82,593	56,973	117,190
South Asia	466,549	763,219	887,612	331,923	535,362	828,591	23,269	43,188	31,918
East Asia (Mfg)	1,143,568	3,015,712	5,934,978	1,388,726	2,393,834	3,872,565	146,353	470,523	888,377
Southeast Asia	59,860	255,595	438,766	457,265	807,511	1,617,168	24,433	56,859	186,974
CENTRALLY PLANNED ECONOMIES	10,229,781	14,891,924	19,583,845	2,140,094	3,168,319	3,297,226	709,215	1,123,493	1,327,701
European	9,698,848	13,098,024	16,916,943	1,809,514	2,344,599	2,502,269	648,255	895,777	1,142,927
Asian	530,933	1,793,900	2,666,902	330,581	823,719	794,957	60,959	227,715	184,774

Table A.01.11. Shares and annual growth rates
(Percentage)

Region	Production					Imports					Exports				
	Share			Growth		Share			Growth		Share			Growth	
	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985
TOTAL	100.0	100.0	100.0	6.5	4.0	100.0	100.0	100.0	9.4	1.8	100.0	100.0	100.0	9.2	0.7
DEVELOPED MARKET ECONOMIES	85.7	83.0	81.3	5.9	3.6	70.5	71.9	67.3	9.8	0.4	95.2	94.4	92.5	9.0	0.3
North America	38.3	39.2	39.4	7.0	4.2	7.8	6.8	9.2	6.5	8.0	16.7	17.4	17.9	10.1	1.2
Europe North	28.8	26.2	23.2	4.5	1.5	50.3	52.7	45.0	10.4	-1.3	67.4	67.7	62.5	9.4	-0.8
Europe South	2.2	2.8	2.8	12.3	3.8	6.4	5.8	6.2	7.0	3.3	1.7	2.3	2.2	16.1	-
Japan	15.8	14.4	15.4	4.5	5.5	2.4	3.1	3.5	15.2	3.9	8.8	6.3	9.2	2.4	8.5
Other developed	0.4	0.4	0.4	4.2	3.9	3.4	3.3	3.3	8.9	1.3	0.5	0.5	0.6	8.0	5.6
DEVELOPING COUNTRIES	5.3	7.4	8.5	14.0	6.8	22.4	21.4	26.4	8.4	6.1	2.2	3.0	4.5	16.1	9.0
Latin America	3.4	4.4	4.0	11.9	2.4	9.3	8.0	7.2	6.1	-0.3	1.2	1.5	1.7	13.8	3.6
Tropical Africa	-	-	-	9.2	6.7	1.3	1.4	1.6	10.7	4.9	-	-	-	-1.3	11.3
North Africa	-	0.1	0.1	17.8	5.7	1.5	1.2	1.7	4.4	9.2	-	0.1	0.1	63.8	2.8
West Asia	0.3	0.3	0.5	9.5	11.9	3.1	3.0	3.8	8.5	6.8	0.2	0.1	0.2	-7.1	15.5
South Asia	0.4	0.4	0.4	10.3	3.0	1.0	1.1	1.5	10.0	9.1	-	-	-	13.1	-5.8
East Asia (Mfg)	0.9	1.9	3.0	21.4	14.5	4.5	4.9	7.3	11.5	10.0	0.5	1.0	1.9	26.3	13.5
Southeast Asia	-	0.1	0.2	33.6	11.4	1.4	1.6	3.0	12.0	14.9	-	0.1	0.4	18.3	26.9
CENTRALLY PLANNED ECONOMIES	8.9	9.4	10.1	7.7	5.6	6.9	6.5	6.2	8.1	0.8	2.4	2.5	2.8	9.6	3.3
European	8.4	8.3	8.7	6.1	5.2	5.8	4.8	4.7	5.3	1.3	2.2	1.9	2.4	6.6	4.9
Asian	0.4	1.1	1.3	27.5	8.2	1.0	1.7	1.5	20.0	-0.7	0.2	0.5	0.3	30.1	-4.0

Table A.02.1. Production of and trade in synthetic rubber, 1975, 1980 and estimated 1985
(Constant 1975 thousand US dollars)

Region	Production			Imports			Exports		
	1975	1980	1985	1975	1980	1985	1975	1980	1985
TOTAL	5,867,848	7,454,931	9,495,299	1,354,065	1,887,133	1,837,039	1,333,407	2,057,164	2,025,536
DEVELOPED MARKET ECONOMIES	3,832,957	4,736,202	5,199,788	999,584	1,415,020	1,350,391	1,269,651	1,930,623	1,834,048
North America	1,857,689	2,144,698	2,460,626	133,018	169,030	233,736	356,239	611,918	553,388
Europe North	1,180,477	1,508,062	1,621,934	702,712	972,133	855,427	745,450	1,121,898	1,047,747
Europe South	56,881	69,714	94,111	113,859	179,552	177,651	5,066	7,363	10,080
Japan	678,270	940,907	959,560	17,549	41,656	37,456	159,209	185,557	216,578
Other developed	59,640	72,821	63,557	32,447	52,649	46,121	3,688	3,887	6,255
DEVELOPING COUNTRIES	243,212	421,308	1,049,347	255,760	347,455	355,233	10,641	25,503	63,213
Latin America	196,099	320,681	924,353	133,361	160,980	115,914	5,278	19,872	56,930
Tropical Africa	-	-	-	11,069	13,641	21,267	68	166	311
North Africa	-	-	-	20,845	15,321	16,854	6	4	4
West Asia	6,456	19,779	24,805	27,507	22,158	35,786	115	85	480
South Asia	19,745	19,457	22,868	10,238	14,068	24,266	103	345	241
East Asia (Mfg)	20,912	61,391	77,321	42,407	99,022	103,493	3,247	3,921	3,825
Southeast Asia	-	-	-	10,332	22,267	37,653	1,825	1,110	1,422
CENTRALLY PLANNED ECONOMIES	1,791,679	2,297,421	3,246,164	98,721	124,658	131,415	53,115	101,038	128,275
European	1,742,660	2,191,642	3,068,965	89,352	105,195	106,090	52,746	98,367	127,218
Asian	49,019	105,779	157,199	9,369	19,463	25,325	369	2,671	1,057

Table A.02.11. Shares and annual growth rates
(Percentage)

Region	Production					Imports					Exports				
	Share			Growth		Share			Growth		Share			Growth	
	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985
TOTAL	100.0	100.0	100.0	4.9	4.9	100.0	100.0	100.0	6.8	-0.5	100.0	100.0	100.0	9.0	-0.3
DEVELOPED MARKET ECONOMIES	65.3	63.5	54.7	4.3	1.8	73.8	74.9	73.5	7.1	-0.9	95.2	93.8	90.5	8.7	-1.0
North America	31.6	28.7	25.9	2.9	2.7	9.8	8.9	12.7	4.9	6.6	26.7	29.7	27.3	11.4	-1.9
Europe North	20.1	20.2	17.0	5.0	1.4	51.8	51.5	46.5	6.7	-2.5	55.9	54.5	51.7	8.5	-1.3
Europe South	0.9	0.9	0.9	4.1	6.1	8.4	9.5	9.6	9.5	-0.2	0.3	0.3	0.4	7.7	6.4
Japan	11.5	12.6	10.1	6.7	0.3	1.2	2.2	2.0	15.8	-2.1	11.9	9.0	10.6	3.1	3.1
Other developed	1.0	0.9	0.6	4.0	-2.6	2.3	2.7	2.5	10.1	-2.6	0.2	0.1	0.3	1.0	9.9
DEVELOPING COUNTRIES	4.1	5.6	11.0	11.6	20.0	18.8	18.4	19.3	6.3	0.4	0.7	1.2	3.1	19.1	19.9
Latin America	3.3	4.3	9.7	10.3	23.5	9.8	8.5	6.3	3.8	-6.3	0.3	0.9	2.8	30.3	23.4
Tropical Africa	-	-	-	-	-	0.8	0.7	1.1	4.2	9.2	-	-	-	19.5	13.3
North Africa	-	-	-	-	-	1.5	0.8	0.9	-5.9	1.9	-	-	-	-7.7	-
West Asia	0.1	0.2	0.2	25.0	4.6	2.0	1.1	1.9	-4.2	10.0	-	-	-	-5.8	41.3
South Asia	0.3	0.2	0.2	-0.2	3.2	0.7	0.7	1.3	6.5	11.5	-	-	-	27.3	-6.9
East Asia (Mfg)	0.3	0.8	0.8	24.0	4.7	3.1	5.2	5.6	18.4	0.8	0.2	0.1	0.1	3.6	-0.4
Southeast Asia	-	-	-	-	-	0.7	1.1	2.0	16.5	11.0	0.1	-	-	-9.4	5.0
CENTRALLY PLANNED ECONOMIES	30.5	30.8	34.1	5.0	7.1	7.2	6.6	7.1	4.7	1.0	3.9	4.9	6.3	13.7	4.8
European	29.6	29.3	32.5	4.6	7.1	6.5	5.5	5.7	3.3	0.1	3.9	4.7	6.2	13.2	5.2
Asian	0.8	1.4	1.6	16.6	8.2	0.6	1.0	1.3	15.7	5.4	-	0.1	-	48.5	-16.9

Table A.03.1. Production of and trade in synthetic fibres, 1975, 1980 and estimated 1985
(Constant 1975 thousand US dollars)

Region	Production			Imports			Exports		
	1975	1980	1985	1975	1980	1985	1975	1980	1985
TOTAL	11,472,710	15,742,557	22,032,955	1,766,427	2,484,943	3,075,971	1,612,244	2,410,773	3,026,597
DEVELOPED MARKET ECONOMIES	8,825,422	11,035,168	14,484,106	1,094,147	1,363,644	1,628,033	1,552,632	2,294,497	2,731,607
North America	4,287,299	5,214,275	7,974,981	85,766	79,104	121,839	168,463	536,841	616,944
Europe North	2,545,578	2,994,423	3,125,984	739,251	957,813	1,064,864	1,030,142	1,285,567	1,453,459
Europe South	276,537	554,247	592,066	183,697	189,056	264,962	27,883	78,661	81,363
Japan	1,644,864	2,169,149	2,668,591	3,833	11,872	28,049	323,652	389,993	575,295
Other developed	71,144	103,074	122,484	81,600	125,800	148,319	2,493	3,435	4,546
DEVELOPING COUNTRIES	1,259,793	2,404,199	4,380,681	479,995	676,303	1,116,682	23,357	92,980	248,014
Latin America	603,301	879,469	1,016,339	79,711	132,704	140,231	10,745	18,708	36,062
Tropical Africa	-	3,867	3,135	12,397	28,809	25,299	181	44	21
North Africa	1,309	10,539	13,566	36,898	63,653	75,942	38	1,982	866
West Asia	83,699	161,199	480,871	146,782	117,245	153,169	2,135	7,663	23,756
South Asia	57,194	112,064	119,569	27,239	121,491	314,917	272	114	270
East Asia (Mfg)	486,701	1,033,392	2,354,112	141,250	139,475	229,553	7,959	36,870	66,559
Southeast Asia	27,589	203,669	393,089	35,719	72,926	177,571	2,027	27,599	120,480
CENTRALLY PLANNED ECONOMIES	1,387,495	2,303,190	3,168,168	192,285	444,996	331,256	36,255	23,296	46,976
European	1,316,661	1,918,791	2,615,568	106,341	129,582	116,762	36,230	22,527	46,734
Asian	70,834	384,399	552,600	85,944	315,414	214,494	25	769	242

Table A.03.11. Shares and annual growth rates
(Percentage)

Region	Production					Imports					Exports				
	Share			Growth		Share			Growth		Share			Growth	
	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985
TOTAL	100.0	100.0	100.0	6.5	6.9	100.0	100.0	100.0	7.0	4.3	100.0	100.0	100.0	8.3	4.6
DEVELOPED MARKET ECONOMIES	76.9	70.0	65.7	4.5	5.5	61.9	54.8	52.9	4.5	3.6	96.3	95.1	90.2	8.1	3.5
North America	37.3	33.1	36.1	3.9	8.8	4.8	3.1	3.9	-1.6	9.0	10.4	22.2	20.3	26.0	2.8
Europe North	22.1	19.0	14.1	3.3	0.8	41.8	38.5	34.6	5.3	2.1	63.8	53.3	48.0	4.5	2.4
Europe South	2.4	3.5	2.6	14.9	1.3	10.3	7.6	8.6	0.5	6.9	1.7	3.2	2.6	23.0	0.6
Japan	14.3	13.7	12.1	5.6	4.2	0.2	0.4	0.9	25.3	18.7	20.0	16.1	19.0	3.7	8.0
Other developed	0.6	0.6	0.5	7.6	3.5	4.6	5.0	4.8	9.0	3.3	0.1	0.1	0.1	6.6	5.7
DEVELOPING COUNTRIES	10.9	15.2	19.8	13.7	12.7	27.1	27.2	36.3	7.0	10.5	1.4	3.8	8.1	31.8	21.6
Latin America	5.2	5.5	4.6	7.8	2.9	4.5	5.3	4.5	10.7	1.1	0.6	0.7	1.1	11.7	14.0
Tropical Africa	-	-	-	-	-4.1	0.7	1.1	0.8	18.3	-2.5	-	-	-	-24.6	-13.7
North Africa	-	-	-	51.7	5.1	2.0	2.5	2.4	11.5	3.5	-	-	-	120.5	-15.2
West Asia	0.7	1.0	2.1	14.0	24.4	8.3	4.7	4.9	-4.3	5.4	0.1	0.3	0.7	29.1	25.3
South Asia	0.4	0.7	0.5	14.3	1.3	1.5	4.8	10.2	34.8	20.9	-	-	-	-15.9	18.8
East Asia (Mfg)	4.2	6.5	10.6	16.2	17.8	7.9	5.6	7.4	-0.2	10.4	0.4	1.5	2.1	35.8	12.5
Southeast Asia	0.2	1.2	1.7	49.1	14.0	2.0	2.9	5.7	15.3	19.4	0.1	1.1	3.9	68.5	34.2
CENTRALLY PLANNED ECONOMIES	12.0	14.6	14.3	10.6	6.5	10.8	17.9	10.7	18.2	-5.7	2.2	0.9	1.5	-8.4	15.0
European	11.4	12.1	11.8	7.8	6.3	6.0	5.2	3.7	4.0	-2.0	2.2	0.9	1.5	-9.0	15.7
Asian	0.6	2.4	2.5	40.2	7.5	4.8	12.6	6.9	29.6	-7.4	-	-	-	98.4	-20.6

Table A.04.1. Production of and trade in organic petrochemicals, 1975, 1980 and estimated 1985
(Constant 1975 thousand US dollars)

Region	Production			Imports			Exports		
	1975	1980	1985	1975	1980	1985	1975	1980	1985
TOTAL	67,644,588	90,983,744	107,591,271	16,216,873	25,132,311	26,767,831	14,909,499	22,373,648	22,700,705
DEVELOPED MARKET ECONOMIES	60,285,761	79,504,551	93,827,534	11,382,166	18,264,275	18,482,757	13,956,278	20,861,545	20,868,382
North America	29,060,614	41,095,339	46,986,726	1,520,436	2,186,207	3,113,612	3,104,862	4,424,534	4,570,356
Europe North	18,659,014	23,238,562	25,942,590	7,650,351	12,483,002	11,404,231	9,366,951	14,523,823	13,837,497
Europe South	1,022,469	1,685,907	2,259,573	1,064,784	1,551,070	1,811,584	328,629	585,143	584,994
Japan	11,517,699	13,459,863	18,605,607	564,703	1,154,067	1,305,095	1,089,566	1,253,603	1,793,911
Other developed	25,965	24,880	33,038	581,892	889,929	848,235	66,269	74,241	81,624
DEVELOPING COUNTRIES	2,410,189	4,890,708	5,568,369	3,808,260	5,421,812	6,776,056	409,322	832,817	1,017,278
Latin America	1,793,550	3,323,431	2,883,325	1,882,808	2,491,190	2,434,486	263,215	501,219	471,965
Tropical Africa	1,942	2,607	3,224	175,358	244,876	251,469	9,784	7,519	9,617
North Africa	11,043	59,286	141,848	213,768	183,180	233,129	3,287	52,294	61,249
West Asia	66,418	73,852	75,231	362,079	560,997	738,769	37,048	18,506	17,576
South Asia	213,787	335,940	447,565	248,777	265,907	292,864	15,179	21,255	24,297
East Asia (Mfg)	319,612	1,087,678	2,007,833	735,241	1,310,680	2,095,699	73,126	222,936	416,947
Southeast Asia	3,837	7,914	9,343	190,230	364,983	729,640	7,683	9,090	15,427
CENTRALLY PLANNED ECONOMIES	4,948,638	6,588,485	8,195,368	1,026,447	1,446,224	1,509,018	543,899	679,286	815,045
European	4,903,163	6,245,308	7,687,912	871,736	1,172,639	1,232,051	489,795	509,518	672,175
Asian	45,475	343,177	507,456	154,712	273,585	276,967	54,104	169,768	142,870

Table A.04.11. Shares and annual growth rates
(Percentage)

Region	Production					Imports					Exports				
	Share			Growth		Share			Growth		Share			Growth	
	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985
TOTAL	100.0	100.0	100.0	6.1	3.4	100.0	100.0	100.0	9.1	1.2	100.0	100.0	100.0	8.4	0.2
DEVELOPED MARKET ECONOMIES	89.1	87.3	87.2	5.6	3.3	70.1	72.6	69.0	9.9	0.2	93.6	93.2	91.9	8.3	-
North America	42.9	45.1	43.6	7.1	2.7	9.3	8.6	11.6	7.5	7.3	20.8	19.7	20.1	7.3	0.6
Europe North	27.5	25.5	24.1	4.4	2.2	47.1	49.6	42.6	10.2	-1.7	62.8	64.9	60.9	9.1	-0.9
Europe South	1.5	1.8	2.1	10.5	6.0	6.5	6.1	6.7	7.8	3.1	2.2	2.6	2.5	12.2	-
Japan	17.0	14.7	17.2	3.1	6.6	3.4	4.5	4.8	15.3	2.4	7.3	5.6	7.9	2.8	7.4
Other developed	-	-	-	-0.8	5.8	3.5	3.5	3.1	8.8	-0.9	0.4	0.3	0.3	2.2	1.9
DEVELOPING COUNTRIES	3.5	5.3	5.1	15.2	2.6	23.4	21.5	25.3	7.3	4.5	2.7	3.7	4.4	15.2	4.0
Latin America	2.6	3.6	2.6	13.1	-2.8	11.6	9.9	9.0	5.7	-0.4	1.7	2.2	2.0	13.7	-1.1
Tropical Africa	-	-	-	6.0	4.3	1.0	0.9	0.9	6.9	0.5	-	-	-	-5.1	5.4
North Africa	-	-	0.1	39.9	19.0	1.3	0.7	0.8	-3.0	4.9	-	0.2	0.2	73.9	3.2
West Asia	-	-	-	2.1	0.3	2.2	2.2	2.7	9.1	5.6	0.2	-	-	-12.9	-1.0
South Asia	0.3	0.3	0.4	6.4	5.9	1.5	1.0	1.0	1.3	1.9	0.1	-	0.1	6.9	2.7
East Asia (Mfg)	0.4	1.1	1.8	27.7	13.0	4.5	5.2	7.6	12.2	9.8	0.4	0.9	1.8	24.9	13.3
Southeast Asia	-	-	-	15.5	3.3	1.1	1.4	2.7	13.9	14.8	-	-	-	3.4	11.1
CENTRALLY PLANNED ECONOMIES	7.3	7.2	7.6	5.8	4.4	6.3	5.7	5.6	7.0	0.8	3.6	3.0	3.5	4.5	3.7
European	7.2	6.8	7.1	4.9	4.2	5.3	4.6	4.6	6.1	0.9	3.2	2.2	2.9	0.7	5.6
Asian	-	0.3	0.4	49.6	8.1	0.9	1.0	1.0	12.0	0.2	0.3	0.7	0.6	25.6	-3.3

Table A.05.1. Production of and trade in plastics and synthetic resins, 1975, 1980 and estimated 1985
(Constant 1975 thousand US dollars)

Region	Production			Imports			Exports		
	1975	1980	1985	1975	1980	1985	1975	1980	1985
TOTAL	21,105,337	31,150,266	38,351,384	9,894,692	16,140,783	18,493,893	9,485,553	15,595,989	16,270,978
DEVELOPED MARKET ECONOMIES	19,134,825	27,018,294	32,860,679	7,203,567	11,966,302	12,455,949	9,291,766	15,013,468	15,447,462
North America	7,436,663	11,063,467	15,358,562	568,459	744,255	1,217,888	997,547	1,896,645	2,217,773
Europe North	7,170,580	9,228,300	9,354,605	5,633,048	9,681,539	9,262,785	7,254,540	11,816,729	11,270,689
Europe South	643,298	1,196,333	1,492,609	548,534	757,260	912,122	109,749	281,785	285,694
Japan	3,749,437	5,345,415	6,435,672	130,282	287,744	428,814	884,632	930,875	1,571,184
Other developed	134,847	184,779	219,231	323,244	495,504	634,340	45,298	87,435	102,122
DEVELOPING COUNTRIES	1,019,648	2,040,395	2,666,150	1,976,366	3,254,239	4,889,794	134,488	299,684	524,867
Latin America	658,349	1,208,312	1,260,452	664,968	942,406	968,599	55,178	96,434	112,466
Tropical Africa	-	-	-	167,027	308,329	456,244	2,336	2,585	7,908
North Africa	9,478	20,061	25,710	164,836	273,314	461,665	806	1,022	1,504
West Asia	80,167	119,122	123,889	376,264	625,181	975,716	15,585	6,642	26,368
South Asia	81,147	136,239	122,923	33,226	104,096	165,891	1,849	4,193	2,718
East Asia (Mfg)	190,507	556,661	1,133,176	399,795	731,505	1,311,724	50,398	180,387	356,824
Southeast Asia	-	-	-	170,249	269,408	549,955	8,337	8,420	17,079
CENTRALLY PLANNED ECONOMIES	950,864	2,091,577	2,824,555	714,759	920,242	1,148,150	59,299	282,837	298,649
European	712,929	1,458,138	1,915,766	646,144	719,286	891,124	56,680	241,853	271,533
Asian	237,935	633,439	908,789	68,615	200,955	257,026	2,619	40,983	27,116

Table A.05.11. Shares and annual growth rates
(Percentage)

Region	Production					Imports					Exports				
	Share			Growth		Share			Growth		Share			Growth	
	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985
TOTAL	100.0	100.0	100.0	8.0	4.2	100.0	100.0	100.0	10.2	2.7	100.0	100.0	100.0	10.4	0.8
DEVELOPED MARKET ECONOMIES	90.6	86.7	85.6	7.1	3.9	72.8	74.1	67.3	10.6	0.8	97.9	96.2	94.9	10.0	0.5
North America	35.2	35.5	40.0	8.2	6.7	5.7	4.6	6.5	5.5	10.3	10.5	12.1	13.6	13.7	3.1
Europe North	33.9	29.6	24.3	5.1	0.2	56.9	59.9	50.0	11.4	-0.8	76.4	75.7	69.2	10.2	-0.9
Europe South	3.0	3.8	3.8	13.2	4.5	5.5	4.6	4.9	6.6	3.7	1.1	1.8	1.7	20.7	0.2
Japan	17.7	17.1	16.7	7.3	3.7	1.3	1.7	2.3	17.1	8.3	9.3	5.9	9.6	1.0	11.0
Other developed	0.6	0.5	0.5	6.5	3.4	3.2	3.0	3.4	8.9	5.0	0.4	0.5	0.6	14.0	3.1
DEVELOPING COUNTRIES	4.8	6.5	6.9	14.8	5.4	19.9	20.1	26.4	10.4	8.4	1.4	1.9	3.2	17.3	11.8
Latin America	3.1	3.8	3.2	12.9	0.8	6.7	5.8	5.2	7.2	0.5	0.5	0.6	0.6	11.8	3.1
Tropical Africa	-	-	-	-	-	1.6	1.9	2.4	13.0	8.1	-	-	-	2.0	25.0
North Africa	-	-	-	16.1	5.0	1.6	1.6	2.4	10.6	11.0	-	-	-	4.8	8.0
West Asia	0.3	0.3	0.3	8.2	0.7	3.8	3.8	5.2	10.6	9.3	0.1	-	0.1	-15.6	31.7
South Asia	0.3	0.4	0.3	10.9	-2.0	0.3	0.6	0.8	25.6	9.7	-	-	-	17.7	-8.3
East Asia (Mfg)	0.9	1.7	2.9	23.9	15.2	4.0	4.5	7.0	12.8	12.3	0.5	1.1	2.1	29.0	14.6
Southeast Asia	-	-	-	-	-	1.7	1.6	2.9	9.6	15.3	-	-	0.1	0.1	15.1
CENTRALLY PLANNED ECONOMIES	4.5	6.7	7.3	17.0	6.1	7.2	5.7	6.2	5.1	4.5	0.6	1.8	1.8	36.6	1.0
European	3.3	4.6	4.9	15.3	5.6	6.5	4.4	4.8	2.1	4.3	0.5	1.5	1.6	33.6	2.3
Asian	1.1	2.0	2.3	21.6	7.4	0.6	1.2	1.3	23.9	5.0	-	0.2	0.1	73.3	-7.9

Table A.06.1. Production of and trade in carbon black, 1975, 1980 and estimated 1985
(Constant 1975 thousand US dollars)

Region	Production			Imports			Exports		
	1975	1980	1985	1975	1980	1985	1975	1980	1985
TOTAL	1,609,203	1,840,611	2,614,807	565,530	976,479	880,151	531,128	871,905	1,046,968
DEVELOPED MARKET ECONOMIES	1,304,233	1,436,070	1,742,343	376,870	693,936	570,108	500,095	818,298	862,985
North America	636,358	607,947	816,419	28,270	32,918	48,492	72,362	212,447	191,357
Europe North	408,555	466,089	514,681	274,506	558,256	404,892	347,137	493,838	486,726
Europe South	32,708	37,709	43,328	47,213	65,122	67,691	7,002	21,134	36,670
Japan	173,738	270,334	303,771	9,377	15,982	25,709	42,873	44,407	60,069
Other developed	52,874	53,991	64,144	17,504	21,657	23,324	30,720	46,471	88,163
DEVELOPING COUNTRIES	137,366	230,819	683,292	159,162	233,198	280,496	20,758	35,651	162,908
Latin America	95,832	159,869	591,754	41,618	61,690	49,793	14,919	20,850	120,700
Tropical Africa	-	-	-	17,060	20,972	58,653	104	872	499
North Africa	-	-	-	14,600	18,096	20,851	-	114	4
West Asia	4,366	7,504	2,633	18,551	19,051	21,758	108	505	248
South Asia	24,439	31,429	39,821	9,532	22,719	20,667	1,625	1,273	1,833
East Asia (Mfg)	11,225	31,547	48,154	27,737	50,530	41,573	2,144	4,541	8,786
Southeast Asia	1,504	470	930	30,065	40,139	67,201	1,858	7,495	30,838
CENTRALLY PLANNED ECONOMIES	167,604	173,722	189,172	29,498	49,345	29,547	10,275	17,956	21,075
European	167,604	173,722	189,172	22,974	39,913	19,938	10,169	15,257	19,383
Asian	-	-	-	6,524	9,432	9,609	105	2,699	1,692

Table A.06.11. Shares and annual growth rates
(Percentage)

Region	Production					Imports					Exports				
	Share			Growth		Share			Growth		Share			Growth	
	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985
TOTAL	100.0	100.0	100.0	2.7	7.2	100.0	100.0	100.0	11.5	-2.0	100.0	100.0	100.0	10.4	3.7
DEVELOPED MARKET ECONOMIES	81.0	78.0	66.6	1.9	3.9	66.6	71.0	64.7	12.9	-3.8	94.1	93.8	82.4	10.3	1.0
North America	39.5	33.0	31.2	-0.9	6.0	4.9	3.3	5.5	3.0	8.0	13.6	24.3	18.2	24.0	-2.0
Europe North	25.3	25.3	19.6	2.6	2.0	48.5	57.1	46.0	15.2	-6.2	65.3	56.6	46.4	7.3	-0.2
Europe South	2.0	2.0	1.6	2.8	2.8	8.3	6.6	7.6	6.6	0.7	1.3	2.4	3.5	24.7	11.6
Japan	10.7	14.6	11.6	9.2	2.3	1.6	1.6	2.9	11.2	9.9	8.0	5.0	5.7	0.7	6.2
Other developed	3.2	2.9	2.4	0.4	3.5	3.0	2.2	2.6	4.3	1.4	5.7	5.3	8.4	8.6	13.6
DEVELOPING COUNTRIES	8.5	12.5	26.1	10.9	24.2	28.1	23.8	31.8	7.9	3.7	3.9	4.0	15.5	11.4	35.5
Latin America	5.9	8.6	22.6	10.7	29.9	7.3	6.3	5.6	8.1	-4.1	2.8	2.3	11.5	6.9	42.0
Tropical Africa	-	-	-	-	-	3.0	2.1	6.6	4.2	22.8	-	0.1	-	53.0	-10.5
North Africa	-	-	-	-	-	2.5	1.8	2.3	4.3	2.8	-	-	-	-	-48.8
West Asia	0.2	0.4	0.1	11.4	-18.8	3.2	1.9	2.4	0.5	2.6	-	-	-	36.1	-13.2
South Asia	1.5	1.7	1.5	5.1	4.8	1.6	2.3	2.3	18.9	-1.8	0.3	0.1	0.1	-4.7	7.5
East Asia (Mfg)	0.6	1.7	1.8	22.9	8.8	4.9	5.1	4.7	12.7	-3.8	0.4	0.5	0.8	16.1	14.1
Southeast Asia	-	-	-	-20.7	14.6	5.3	4.1	7.6	5.9	10.8	0.3	0.8	2.9	32.1	32.6
CENTRALLY PLANNED ECONOMIES	10.4	9.4	7.2	0.7	1.7	5.2	5.0	3.3	10.8	-9.7	1.9	2.0	2.0	11.8	3.2
European	10.4	9.4	7.2	0.7	1.7	4.0	4.0	2.2	11.6	-12.9	1.9	1.7	1.8	8.4	4.9
Asian	-	-	-	-	-	1.1	0.9	1.0	7.6	0.3	-	0.3	0.1	91.4	-8.9

Table A.07.1. Production of and trade in surfactants, 1975, 1980 and estimated 1985
(Constant 1975 thousand US dollars)

Region	Production			Imports			Exports		
	1975	1980	1985	1975	1980	1985	1975	1980	1985
TOTAL	6,938,421	10,611,732	12,796,645	959,816	1,611,994	1,751,587	942,561	1,612,704	1,502,375
DEVELOPED MARKET ECONOMIES	4,922,956	7,369,369	8,777,439	646,061	1,010,458	1,079,478	883,688	1,503,778	1,374,529
North America	706,000	1,732,000	2,568,156	67,820	86,692	132,929	134,100	152,430	189,246
Europe North	3,128,407	3,906,875	4,193,264	492,241	803,331	801,665	688,994	1,212,924	1,034,158
Europe South	497,303	982,913	994,768	34,888	58,274	65,666	13,713	67,616	38,980
Japan	416,218	547,854	747,650	27,120	18,771	33,589	41,563	59,794	97,203
Other developed	175,028	199,727	273,601	23,992	43,389	45,629	5,318	11,014	14,942
DEVELOPING COUNTRIES	1,031,964	1,804,834	2,058,788	235,371	418,682	524,270	52,501	89,846	110,164
Latin America	623,691	1,082,830	1,179,017	76,637	91,974	95,661	6,890	24,025	18,636
Tropical Africa	8,701	10,088	16,550	28,758	67,829	59,831	1,029	1,428	3,036
North Africa	58,914	93,675	62,075	30,800	44,773	121,092	558	-	8
West Asia	128,880	201,566	316,494	33,299	106,616	92,029	27,602	23,572	48,762
South Asia	70,237	128,090	134,866	2,911	7,081	9,986	4,241	16,008	2,558
East Asia (Mfg)	114,611	245,043	314,382	42,296	62,622	90,523	9,479	21,868	35,436
Southeast Asia	26,930	43,542	35,404	20,670	37,788	55,148	2,703	2,945	1,728
CENTRALLY PLANNED ECONOMIES	983,501	1,437,529	1,960,418	78,384	182,854	147,839	6,372	19,080	17,682
European	855,831	1,110,423	1,419,560	72,967	177,984	136,304	2,635	8,255	5,884
Asian	127,670	327,106	540,858	5,417	4,870	11,535	3,737	10,825	11,798

Table A.07.11. Shares and annual growth rates
(Percentage)

Region	Production					Imports					Exports				
	Share			Growth		Share			Growth		Share			Growth	
	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985	1975	1980	1985	1975-1980	1980-1985
TOTAL	100.0	100.0	100.0	8.8	3.8	100.0	100.0	100.0	10.9	1.6	100.0	100.0	100.0	11.3	-1.4
DEVELOPED MARKET ECONOMIES	70.9	69.4	68.5	8.4	3.5	67.3	62.6	61.6	9.3	1.3	93.7	93.2	91.4	11.2	-1.7
North America	10.1	16.3	20.0	19.6	8.1	7.0	5.3	7.5	5.0	8.9	14.2	9.4	12.5	2.5	4.4
Europe North	45.0	36.8	32.7	4.5	1.4	51.2	49.8	45.7	10.2	-	73.0	75.2	68.8	11.9	-3.1
Europe South	7.1	9.2	7.7	14.5	0.2	3.6	3.6	3.7	10.8	2.4	1.4	4.1	2.5	37.5	-10.4
Japan	5.9	5.1	5.8	5.6	6.4	2.8	1.1	1.9	-7.0	12.3	4.4	3.7	6.4	7.5	10.2
Other developed	2.5	1.8	2.1	2.6	6.4	2.4	2.6	2.6	12.5	1.0	0.5	0.6	0.9	15.6	6.2
DEVELOPING COUNTRIES	14.8	17.0	16.0	11.8	2.6	24.5	25.9	29.9	12.2	4.6	5.5	5.5	7.3	11.3	4.1
Latin America	8.9	10.2	9.2	11.6	1.7	7.9	5.7	5.4	3.7	0.7	0.7	1.4	1.2	28.3	-4.9
Tropical Africa	0.1	-	0.1	3.0	10.4	2.9	4.2	3.4	18.7	-2.4	0.1	-	0.2	6.7	16.2
North Africa	0.8	0.8	0.4	9.7	-7.9	3.2	2.7	6.9	7.7	22.0	-	-	-	-	-
West Asia	1.8	1.8	2.4	9.3	9.4	3.4	6.6	5.2	26.2	-2.8	2.9	1.4	3.2	-3.1	15.6
South Asia	1.0	1.2	1.0	12.7	1.0	0.3	0.4	0.5	19.4	7.1	0.4	0.9	0.1	30.4	-30.7
East Asia (Mfg)	1.6	2.3	2.4	16.4	5.1	4.4	3.8	5.1	8.1	7.6	1.0	1.3	2.3	18.1	10.1
Southeast Asia	0.3	0.4	0.2	10.0	-4.0	2.1	2.3	3.1	12.8	7.8	0.2	0.1	0.1	1.7	-10.1
CENTRALLY PLANNED ECONOMIES	14.1	13.5	15.3	7.8	6.4	8.1	11.3	8.4	18.4	-4.1	0.6	1.1	1.1	24.5	-1.5
European	12.3	10.4	11.0	5.3	5.0	7.6	11.0	7.7	19.5	-5.1	0.2	0.5	0.3	25.6	-6.5
Asian	1.8	3.0	4.2	20.7	10.5	0.5	0.3	0.6	-2.1	18.8	0.3	0.6	0.7	23.7	1.7

Section B

Value added and major factors of production by product group, selected countries, 1975 and 1980

The economists' production function describes what factors of production are required for the production of a certain output, given that the purely technological problems of production have been solved. Traditionally, labour and capital are among the major factors and, depending upon the sector, so is energy. The B-tables present the available statistical information on electricity consumed, gross fixed capital formation and number of employees employed in the generation of a unit of value added in petrochemicals. The first six tables show the factor intensities for the six petrochemical product groups[1/] defined in the introduction. But, because this very specific information is available only for very few countries, the corresponding data for ISIC 351 and 352 are also shown in the next two tables. The first four groups of petrochemicals, namely synthetic rubbers, synthetic fibers, organic petrochemicals, and plastics and synthetic resins fall into ISIC 351. The remaining two groups, carbon black and surfactants belong to ISIC 352.

Table B.09 shows production and employment data in selected countries solely for synthetic fibers. Production is given in metric tonnes and employees in number of persons.

The quantity of electricity consumed used to compute column 1 of the B-tables is defined as the sum of the quantity of electricity purchased and generated less the quantity of electricity sold to others.

The number of employees is defined as the total number of persons who worked in or for the establishment during the reference year. This figure normally refers to the average number engaged during the reference year. It is intended to include all persons engaged other than working proprietors, active business partners, unpaid family workers and home workers.

1/ This information stems from national and international sources. UNIDO is most grateful for the responses to its request for sectorally specific data from statistical offices, manufacturers' associations, and other trade organizations.

The gross fixed capital formation series used to compute Column 3 of the tables B.07, ..., B.08 refers to the value of purchases and own-account construction of fixed assets during the reference year less the value of corresponding sales.

It is recognized that the factor intensity data may be particularly uncertain. Not all the variations shown in the tables can be explained by economic factors. UNIDO is grateful for supplementary information, corrections etc. that can help to improve and expand these statistics.

Table B.01. Value added and major factors of production in synthetic rubber for selected countries, 1975, 1980 and 1983

Country	kWh/000 US $ value added			Number of employees/ million US $ value added			Gross fixed capital formation/ value added			Value added in 1975 million US dollars		
	1975	1980	1983	1975	1980	1983	1975	1980	1983	1975	1980	1983
Australia	...	...	...	...	...	...	...	...	...	...	...	...
Finland	...	...	...	...	...	...	...	...	...	...	...	...
Japan	...	5,515	4,652	20.5	12.9	13.6	0.2518	0.0121	0.1766	293.9	449.4	532.1
Korea Republic	6,667	3,941	...	44.4	108.8	...	...	...	...	6.3	5.3	...
Portugal	...	...	...	...	...	...	...	...	...	...	...	...
Spain	...	...	...	...	25.0	...	...	0.0338	...	...	14.9	...
U.K.	...	...	...	...	69.1	...	...	0.9623	0.0745 a/	...	33.3	35.5 a/
U.S.A.	...	4,822	...	...	38.8	22.0	...	0.2142	...	...	293.9	536.3

Table B.02. Value added and major factors of production in synthetic fibres for selected countries, 1975, 1980 and 1983

Country	kWh/000 US $ value added			Number of employees/ million US $ value added			Gross fixed capital formation/ value added			Value added in 1975 million US dollars		
	1975	1980	1983	1975	1980	1983	1975	1980	1983	1975	1980	1983
Australia	...	...	...	85.1	66.1	69.4	0.0959	0.0925	0.0589	96.9	108.9	107.2
Finland	...	...	...	139.3	...	...	12.0000	...	...	4.4	...	...
Japan	...	5,034	4,151	111.2	42.4	32.0	0.5675	0.3244	0.2868	563.3	970.3	1,128.4
Korea Republic	3,547	5,263	...	...	...	...	...	...	...	110.8	213.6	...
Portugal	...	2,576	...	...	...	...	...	...	...	...	34.9	...
Spain	...	...	...	...	...	...	...	...	...	...	165.6	...
U.K.	...	...	...	89.5	102.2	...	0.1750	0.2931	0.1401 a/	448.1	235.6	169.7 a/
U.S.A.	20,429	21,066	...	52.5	47.5	40.2 a/	...	...	...	302.8	339.0	352.5 a/

a/ 1982

Table B.03. Value added and major factors of production in organic chemicals for selected countries, 1975, 1980 and 1983

Country	kWh/000 US $ value added			Number of employees/ million US $ value added			Gross fixed capital formation/ value added			Value added in 1975 million US dollars		
	1975	1980	1983	1975	1980	1983	1975	1980	1983	1975	1980	1983
Australia	...	...	...	...	...	...	...	...	...	...	...	...
Finland	...	...	...	48.0	28.2	40.3	4.5101	7.2242	7.8131	19.8	29.9	34.5
Japan	...	5,251	3,804	40.3	19.2	...	0.5749	0.1993	0.1709	1,720.6	2,686.6	3,286.2
Korea Republic	2,983	3,246	...	116.5	61.4	...	...	...	...	60.7	145.3	...
Portugal	1,625	2,781	...	...	...	...	...	...	...	...	...	...
S[illegible]	...	...	...	...	32.0	...	...	...	...	...	151.4	...
U.K.	2,796 a/	3,208 b/	...	49.6	52.5	...	0.5421	0.4672	0.3834	726.0	725.0	658.9 c/
U.S.A.	563	744	...	13.1	16.2	...	0.2087	0.2066	...	8,027.4	7,242.6	...

Table B.04. Value added and major factors of production in plastics and synthetic resins for selected countries, 1975, 1980 and 1983

Country	kWh/000 US $ value added			Number of employees/ million US $ value added			Gross fixed capital formation/ value added			Value added in 1975 million US dollars		
	1975	1980	1983	1975	1980	1983	1975	1980	1983	1975	1980	1983
Australia	...	...	...	...	...	...	...	...	...	...	...	...
Finland	...	...	...	43.7	32.5	32.6	8.7480	3.7240	4.8967	24.6	47.3	45.5
Japan	...	5,254	3,441	43.9	25.2	17.9	0.6284	0.2307	0.2628	874.6	1,243.9	1,888.3
Korea Republic	2,983	3,248	...	327.0	264.4	...	...	...	...	146.5	245.1	...
Portugal	1,625	2,782	...	68.9	90.6	...	...	4.2963	...	8.0	12.9	...
Spain	...	...	...	...	29.2	...	...	...	...	...	216.5	...
U.K.	...	...	...	74.4 d/	81.8	57.3	0.2331 d/	0.3434	0.1980 c/	686.8 d/	353.6	293.0 c/
U.S.A.	2,632	3,842	...	19.6	19.0	...	0.2302	0.2563	...	2,770.5	3,093.3	...

a/ 1974
b/ 1979
c/ 1982
d/ Includes synthetic rubber

Table B.05. Value added and major factors of production in carbon black for selected countries, 1975, 1980 and 1983

Country	kWh/000 US $ value added			Number of employees/ million US $ value added			Gross fixed capital formation/ value added			Value added in 1975 million US dollars		
	1975	1980	1983	1975	1980	1983	1975	1980	1983	1975	1980	1983
Australia	...	...	...	...	...	...	...	...	...	...	...	...
Finland	...	...	...	...	...	...	...	...	...	...	...	...
Japan	...	...	...	...	...	...	...	...	...	...	...	...
Korea Republic	2,258	...	...	...	...	...	...	...	...	3.1	...	...
Portugal	...	...	...	...	...	...	...	...	...	...	...	...
Spain	...	...	...	...	...	...	...	...	...	...	...	...
U.K.	...	...	...	...	...	...	...	...	...	...	...	...
U.S.A.	5,202	6,801	...	23.0	28.9	17.9 a/	0.3053	0.2100	0.2065 a/	99.9	79.5	117.1 a/

Table B.06. Value added and major factors of production in surfactants for selected countries, 1975, 1980 and 1983

Country	kWh/000 US $ value added			Number of employees/ million US $ value added			Gross fixed capital formation/ value added			Value added in 1975 million US dollars		
	1975	1980	1983	1975	1980	1983	1975	1980	1983	1975	1980	1983
Australia	...	...	...	...	...	...	...	...	...	...	...	...
Finland b/	...	...	...	67.1	34.7	33.6	1.1901	0.9658	1.2000	14.2	45.4	48.2
Japan	...	273	404	51.6	25.1	20.1	0.0742	0.0825	1.8646	89.9	175.4	275.1
Korea Republic	...	...	...	...	...	...	...	...	...	...	...	...
Portugal	...	...	...	...	...	...	...	...	...	...	...	...
Spain	...	...	...	...	...	...	...	...	...	...	165.6	...
U.K. b/	...	...	...	93.5	32.0	35.8 a/	0.1106	0.0803	0.1113 a/	175.4	465.6	370.9 a/
U.S.A.	1,085	874	...	24.8	14.0	13.2 a/	0.1287	0.0830	0.1160 a/	...	190.3	641.6 a/

a/ 1982
b/ Includes scrap

Table 8.07. Value added and major factors of production in industrial chemicals for selected countries, 1975 and 1980

Country	kWh/000 US $ value added		Number of employees/ million US $ value added		Gross fixed capital formation/ value added		Value added within ISIC 351 1975 million US dollars	
	1975	1980	1975	1980	1975	1980	1975	1980
Algeria	...	...	78.7	230.8	...	...	5.2	4.4
Argentina	...	...	34.4	28.0	...	...	898.8	871.9
Australia	...	...	45.2	26.5	0.1674	0.1927	465.0	716.2
Austria	...	...	74.5	51.2	0.2720	0.1761	306.0	443.6
Brazil	...	...	62.0	49.8	0.4205	...	774.7	1,324.9
Canada	8,340	7,951	31.5	24.8	0.7754	0.3328	889.0	1,369.0
China	...	...	...	...	...	...	...	...
Egypt	...	...	448.9	...	4.5344	...	51.8	61.7
Finland	5,400	6,247	41.6	35.4	0.2444	0.2271	344.0	395.7
France	...	...	39.1	33.7	0.2237	0.1680	4,069.8	4,598.8
Germany, F. Rp.	...	...	38.3	30.6	0.1478	0.1662	8,333.0	10,166.2
Hungary	4,261	3,810	88.9	57.7	0.5004	0.1814	483.5	710.7
India	...	...	249.0	...	...	...	594.3	873.7
Italy	...	...	54.9	44.1	0.2344	0.0934	2,624.5	2,991.9
Japan	...	...	62.0	40.0	0.3575	0.1683	4,158.3	5,281.1
Korea Republic	6,162	5,145	127.3	54.4	0.4430	1.0122	266.2	551.2
Mexico	1,597	1,864	61.7	64.1	0.1468	0.1189	763.8	947.2
Netherlands	...	...	33.3	30.0	0.2344	0.2390	1,712.1	1,797.7
Norway	...	...	34.2	29.8	0.7868	0.1283	248.3	332.7
Portugal	4,422	3,869	56.6	48.0	0.5302	1.7569	218.9	306.4
Romania	...	...	24.0	17.4	...	...	2,000.7	3,161.1
Saudi Arabia	...	...	...	...	...	...	...	...
Spain	4,940	...	47.4	...	0.3105	...	1,349.5	1,727.4
Switzerland	...	...	40.0	30.7	...	...	784.7	1,004.4
Turkey	...	2,677	55.0	50.5	0.3672	0.1302	314.2	449.4
U.K.	...	...	78.4	61.4	0.2131	0.2556	3,151.1	3,340.1
U.S.A.	6,467	4,642	24.4	18.0	0.2114	0.1724	18,400.0	26,496.0

Table B.08. Value added and major factors of production in other chemical products for selected countries, 1975 and 1980

Country	kWh/000 US $ value added		Number of employees/ million US $ value added		Gross fixed capital formation/ value added		Value added within ISIC 352 1975 million US dollars	
	1975	1980	1975	1980	1975	1980	1975	1980
Algeria	...	...	78.6	128.7	...	...	25.2	38.4
Argentina	...	...	54.2	44.7	...	...	1,434.5	1,348.4
Australia	...	...	56.4	49.4	0.0662	0.0605	655.7	708.1
Austria	...	...	74.0	54.3	0.1499	0.1679	264.6	357.3
Brazil	...	...	26.4	25.6	...	...	2,045.5	4,888.7
Canada	639	586	53.3	44.1	0.0599	0.0749	995.0	1,223.9
China	...	...	...	...	...	...	...	...
Egypt	...	...	219.3	...	0.8329	...	135.0	197.1
Finland	365	305	62.8	42.8	0.2017	0.2177	148.0	242.7
France	...	...	60.7	67.1	0.1324	0.1083	2,980.9	2,831.8
Germany, F. Rp.	...	...	59.1	44.4	0.2241	0.1392	4,487.0	5,833.0
Hungary	418	419	83.1	63.6	0.1356	0.2513	337.0	424.6
India	...	...	276.9	...	...	...	758.5	955.7
Italy	...	...	74.3	54.8	0.3502	0.1524	1,884.9	2,337.2
Japan	...	...	41.4	25.0	0.0730	0.0644	5,018.8	8,080.4
Korea Republic	1,013	870	191.6	64.6	0.1468	0.1258	217.1	523.2
Mexico	151	175	68.5	56.3	0.0369	0.0308	1,128.0	1,556.6
Netherlands	...	...	45.0	37.7	0.1623	0.1741	711.7	768.6
Norway	1,221	1,231	56.0	51.1	0.1700	0.1009	137.6	148.6
Portugal	124	121	66.4	42.7	0.0740	0.1081	274.1	479.8
Romania	...	...	367.5	979.3	...	...	35.0	56.1
Saudi Arabia	...	...	...	...	...	...	...	...
Spain	417	...	73.8	...	0.0983	...	1,043.2	1,335.4
Switzerland	...	...	35.1	30.6	...	...	1,036.7	1,171.5
Turkey	...	201	94.8	52.8	0.1233	0.0747	243.6	358.0
U.K.	...	...	99.7	89.7	0.1000	0.1031	1,815.6	2,051.6
U.S.A.	557	477	27.9	21.7	0.0543	0.0577	15,600.0	21,372.0

Table B.09. Synthetic fibres: Production and employment in selected countries, 1975, 1980 and 1983

Country	Production (thousand metric tonnes)			Employment a/ (numbers)			Number of employees per thousand metric tons of production		
	1975	1980	1983	1975	1980	1983	1975	1980	1983
Austria	16.6	25.4	23.9	5,100	5,260	4,967	307.2	207.1	207.8
Brazil	125.6	220.1	180.0	...	11,187	...	...	50.8	...
Finland	...	...	...	2,005	1,421	1,204	...	...	...
France	204.6	192.5	198.8	20,450	10,920	7,588	100.0	56.7	38.2
Germany, Federal Rep.	622.0	716.0	752.0	43,000	30,300	26,300	69.1	42.3	35.0
India	33.4	70.4	127.8 b/	...	48,410	52,193 b/	...	687.6	408.4 b/
Italy	304.2	407.6	530.1	41,800	29,115	21,782	137.4	71.4	41.1
Japan	1,061.2	1,399.4	1,357.6	91,345	53,104	49,198	86.1	37.9	36.2
Korea, Republic of	267.1	540.2	664.6	16,655	19,885	19,107	62.4	36.8	28.7
Netherlands	...	...	...	10,955	...	...	...	...	...
Norway	...	...	...	380	363	...	...	...	...
Portugal	7.5	30.5	43.4	3,000	3,429	3,340	400.0	112.4	77.0
Spain	119.1	205.2	244.8	12,675	10,640	9,152	106.4	51.8	37.4
Switzerland	68.6	79.4	92.9	5,000	4,000	3,400	72.9	50.4	36.6
United Kingdom	360.2	304.8	245.9	43,000	17,616	10,143	119.4	57.8	41.2
USA	2,465.2	3,293.2	3,282.7 c/	109,300	81,000	74,800 c/	44.3	24.6	22.8 c/

a/ Workers and administrative and technical departments
b/ 1982
c/ 1981

Source: International Rayon and Synthetic Fibres Committee, Paris, France; various statistical yearbooks.

Section C

Input/output relationships between chemicals and petrochemicals and other sectors by region, 1980

The tables in this section represent an attempt to depict the distribution of inputs to and from 14 supplying sectors and the petrochemical sector. This is done first by assuming that petrochemical input shares are similar to those for the chemicals sector as a whole. This assumption was necessary since no consistent set of regional data were available at a lower level of disaggregation. Later, table C.3 presents coefficients that are specific to the petrochemical product groups as defined for this study; however, such specific data were available only for a few countries and no regionalization was attempted.

The tables in this section cover 14 regions. Twelve of them are based on a consistent set of nine input/output tables containing 14 sectors and constructed by the UNIDO Secretariat. These nine region tables, in turn, were allocated in such a way as to correspond as closely as possible to the present 14 region break-down. This was accomplished by assuming that the following regions' input structure and, hence, their coefficients would be similarly distributed: North Europe and South Europe, North Africa and West Asia, Japan and East Asia (Mfg). Here, the first region of each pair is also taken to represent the second.

Table C.1 contains the standard input/output coefficients depicting the share of the chemical sector's gross output value which was used to purchase inputs from each sector. Alternatively, these coefficients indicate the value of each sector's output used as an input to produce one unit of value of chemical sector output. For example, in Japan 1% of the value of chemical sector output was required for the purchase of metal product inputs to produce chemicals.

For the input distributions in the centrally planned economies, UNIDO has no reliable estimates. In table C.1, however, their ratios of the value of total inputs to gross output have been estimated. For CPE Europe, this was

done on the basis of the structure in Hungary, a country for which the input/output structure is available. In the case of CPE Asia, this figure was arrived at by taking an (unweighted) average of the corresponding ratio for the regions "South Asia", "East and South-East Asia", and "East Asia (Mfg)".

Table C.2 indicates the importance of the chemical sector as a sourcing sector of inputs to other sectors. In particular, the coefficients in this table indicate the share of each sector's value of gross output that was used to purchase inputs from the chemical sector. Thus, for example, in North Africa, in order to produce the products in the textile sector, 4% of the value of textile output was required for the purchase of inputs from the chemical sector. Note that for the same reasons as stated for table C.1, no figures have been provided for the centrally planned economies.

Table C.3 provides a more in depth examination of the structure of the input requirements, i.e., the input-output coefficients, to various petrochemical product groups in selected countries. In the table, the rows have been aggregated into a common set of sourcing sub-sectors. In this way, a uniform basis exists with which to contrast the input needs among countries and across a broad range of well-defined petrochemical product groups. Two caveats are to be kept in mind when evaluating this table. First, different countries' columns are for different years although in all instances, the latest Input/Output table available to UNIDO has been used. Second, though the column definitions tend to be quite similar, they are not generally identical; this means they may not always include the same products. It is felt, nonetheless, that the proposed comparison may be fruitful and instructive.

Table C.01. Input coefficients for the chemical products sector by region in 1980
(Per cent)

Major industrial group or branch	Developed market economies				Developing countries							CPEs	
	North America	Western Europe	Japan	Other developed	Tropical Africa	North Africa	West Asia	South Asia	East Asia (Mfg)	E & SE Asia	Latin America	Europe	Asia
Agriculture	1	1	0	1	2	3	3	3	0	1	1	...	...
Agro-food	0	1	0	1	2	1	1	4	0	1	1	...	...
Energy	4	6	3	1	11	7	7	3	3	2	4	...	...
Petr. & coal products	2	4	5	3	1	0	0	3	5	13	2	...	...
Mining & quarrying	2	4	9	25	14	10	10	1	9	4	3	...	...
Primary metal products	1	2	0	1	0	1	1	2	0	0	1	...	...
Chemical products	22	27	27	16	12	14	14	26	27	31	22	...	...
Textiles	0	0	0	0	1	2	2	3	0	1	0	...	...
Metal products	1	1	0	1	1	1	1	1	0	0	0	...	...
Light manufacturing	3	2	4	2	0	1	1	1	4	1	1	...	...
Capital goods	0	1	1	1	1	1	1	1	1	1	0	...	...
Construction	0	0	0	0	1	0	0	3	0	0	0	...	...
Trade & transport	9	7	6	6	13	13	13	20	6	8	7	...	...
Other services	10	7	8	5	4	3	3	4	8	4	5	...	...
Total input materials	55	63	63	63	53	57	57	75	63	66	49	68	68
Value added	45	37	37	37	37	43	43	25	37	34	51	32	32
Gross output	100	100	100	100	100	100	100	100	100	100	100	100	100

Source: UNIDO secretariat

Table C.02. Chemical products input coefficients by receiving sector by region in 1980
(Per cent)

Major industrial group or branch	Developed market economies				Developing countries							Centrally planned economies
	North America	Western Europe	Japan	Other developed	Tropical Africa	North Africa	West Asia	South Asia	East Asia (Mfg)	E & SE Asia	Latin America	
Agriculture	4	5	6	8	1	2	2	6	6	3	5	...
Agro-food	5	4	3	4	2	2	2	1	3	2	3	...
Energy	0	2	1	1	1	0	0	0	1	0	1	...
Petr. & coal products	3	2	1	2	0	1	1	1	1	1	2	...
Mining & quarrying	2	3	1	1	4	1	1	2	1	3	3	...
Primary metal product	3	4	1	1	10	1	1	3	1	2	1	...
Chemical products	22	27	27	16	12	14	14	26	27	31	22	...
Textiles	8	9	8	12	5	4	4	6	8	11	10	...
Metal products	4	4	12	2	4	3	3	8	12	9	4	...
Light manufacturing	10	13	11	15	7	9	9	13	11	13	12	...
Capital goods	2	3	2	2	2	2	2	2	2	5	2	...
Construction	8	11	10	10	9	10	10	16	10	16	17	...
Trade & transport	1	2	1	2	1	1	1	0	1	1	1	...
Other services	1	2	4	2	1	1	1	8	4	2	1	...
Total input materials	3	5	6	4	3	3	3	7	6	6	5	...
Private consumption	2	2	2	2	2	4	4	2	2	3	5	...
Government consumption	4	0	0	4	1	3	3	2	0	3	3	...
Final demand	3	2	1	1	-1	0	0	0	1	-1	2	...
Total demand	3	4	4	3	1	2	2	5	4	3	4	...

Source: UNIDO secretariat

Table C.03. Input structure for petrochemical products, selected countries

Source sector	USA	Greece		Australia	Brazil		Ivory Coast
	Plastic and synthetic materials	Rubber products	Plastic products	Man-made fibres yarns, etc.	Resins and artificial fibres	Plastics industry	Chemical manufacturing
Agriculture	0.000207	0.004218	0.001925	0.000000	0.000000	0.000517	0.009454
Agro-food	0.003717	0.000058	0.000078	0.005236	0.008744	0.000000	0.069818
Energy & petrol. products	0.035213	0.032426	0.022155	0.029319	0.043720	0.015512	0.026454
Basic products	0.400248	0.086084	0.299150	0.218848	0.333068	0.349018	0.385804
Light industry	0.023647	0.271833	0.026272	0.267539	0.004769	0.023785	0.021831
Capital goods	0.009294	0.022300	0.009073	0.009948	0.000000	0.000000	0.036356
Construction	0.008777	0.001542	0.000522	0.012042	0.000000	0.000000	0.001939
Trade and service	0.133622	0.162848	0.136365	0.115707	0.052464	0.070838	0.204474
Intermed. inputs alloc.	0.613693	0.581308	0.495538	0.657592	0.442766	0.460703	0.756129
Imp. or res. to be alloc.	0.000413	0.000000	0.000000	0.000000	0.004769	0.021200	0.000000
Wages	0.259087	0.177509	0.169994	0.304712	0.151828	0.135988	0.090158
Consump. of fixed capital	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Taxes less subsidies	0.012082	0.066304	0.025847	0.014660	0.000000	0.000000	0.024068
Net operating surplus	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Value added	0.385998	0.418692	0.504462	0.341885	0.540541	0.510858	0.243871
Gross output	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

Source: UNIDO secretariat

Table C.03. Input structure for petrochemical products, selected countries

Source sector	Iran	Guatemala	Israel	Japan	Mexico	Papua N.G.	Singapore
	Petrochem. manufactrg.	Chemicals	Rubber and plastic products	Artificial fibre material	Resins and synthetic plastics	Fibreglass and plastic products	Plastic and plastic products
Agriculture	0.000000	0.000394	0.012770	0.002064	0.000918	0.000000	0.000000
Agro-food	0.000000	0.032518	0.001022	0.000000	0.000993	0.100000	0.000600
Energy & petrol. products	0.018259	0.025384	0.014047	0.093091	0.029488	0.017391	0.021008
Basic products	0.405729	0.026867	0.016090	0.349012	0.306824	0.295652	0.596038
Light industry	0.000000	0.093099	0.321798	0.002824	0.017772	0.000000	0.019808
Capital goods	0.010122	0.000000	0.017622	0.008364	0.002085	0.013043	0.000600
Construction	0.001654	0.000000	0.002937	0.006409	0.000000	0.000000	0.000600
Trade and service	0.052792	0.255556	0.056187	0.162503	0.185072	0.204348	0.055222
Intermed. inputs alloc.	0.488555	0.433818	0.442472	0.624267	0.543153	0.630435	0.693878
Imp. or res. to be alloc.	0.047698	0.318132	0.000000	0.000000	0.000000	0.026087	0.000000
Wages	0.000000	0.218420	0.190525	0.104823	0.125102	0.156522	0.120048
Consump. of fixed capital	0.000000	0.000000	0.000000	0.099609	0.000000	0.047826	0.000000
Taxes less subsidies	0.000000	0.000000	0.199719	0.012709	0.009904	0.017391	0.013806
Net operating surplus	0.000000	0.000000	0.000000	0.134912	0.000000	0.121739	0.000000
Value added	0.463747	0.248050	0.349636	0.375733	0.456847	0.343478	0.306122
Gross output	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

Source: UNIDO secretariat

Table C.03. Input structure for petrochemical products, selected countries

Source sector	Spain		Korea Republic		Madagascar	Germany, F.R.	Italy
	Artificial and synthetic fibres	Organic basic chemical fibres	Organic chemicals	Rubber products	Chemical and pharmaceutical industries	Rubber, plastic products	Rubber, plastic products
Agriculture	0.013205	0.100893	0.000491	0.146586	0.009065	0.018225	0.000000
Agro-food	0.016130	0.040928	0.035166	0.000030	0.036621	0.002140	0.000257
Energy & petrol. products	0.052319	0.092380	0.043147	0.050081	0.060914	0.026874	0.028747
Basic products	0.209946	0.212218	0.415470	0.231150	0.239304	0.256277	0.373819
Light industry	0.006268	0.005800	0.016487	0.132873	0.018129	0.168486	0.062372
Capital goods	0.001254	0.003274	0.011050	0.007204	0.026468	0.012661	0.002053
Construction	0.003260	0.002105	0.000579	0.001412	0.005439	0.006384	0.010472
Trade and service	0.162808	0.056925	0.180216	0.178703	0.364757	0.089539	0.083111
Intermed. inputs alloc.	0.614793	0.762664	0.702605	0.748039	0.760696	0.580641	0.560883
Imp. or res. to be alloc.	0.000000	0.000000	0.010611	0.007483	0.000000	0.000000	0.000000
Wages	0.185708	0.047102	0.092642	0.140266	0.118202	0.243812	0.273049
Consump. of fixed capital	0.075387	0.059872	0.049864	0.021189	0.041697	0.072259	0.052002
Taxes less subsidies	0.018888	-0.000327	0.020433	0.006424	0.093183	0.038448	0.024538
Net operating surplus	0.105224	0.130689	0.123845	0.076598	0.038796	0.064858	0.089476
Value added	0.385207	0.237336	0.286784	0.244478	0.291878	0.419359	0.439117
Gross output	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

Source: UNIDO secretariat

Table C.03. Input structure for petrochemical products, selected countries

Source sector	Province of Taiwan			Colombia	Mexico
	Rubber and rubber products	Plastics and plastic products	Artificial fibres	Chemicals and rubber	Basic petrochemicals
Agriculture	0.000014	0.000157	0.000000	0.034997	0.000000
Agro-food	0.000013	0.000000	0.000000	0.031862	0.000000
Energy & petrol. products	0.032454	0.017002	0.025625	0.039639	0.129102
Basic products	0.100204	0.294207	0.289690	0.306573	0.293522
Light industry	0.120632	0.042105	0.006526	0.093452	0.015061
Capital goods	0.012116	0.008004	0.007205	0.012042	0.016573
Construction	0.009690	0.001143	0.001260	0.000000	0.000000
Trade and service	0.063765	0.054899	0.039763	0.144129	0.110753
Intermed. inputs alloc.	0.338890	0.417518	0.370070	0.662694	0.565012
Imp. or res. to be alloc.	0.013183	0.008861	0.008810	0.000000	0.000000
Wages	0.000000	0.000000	0.000000	0.000000	0.171325
Consump. of fixed capital	0.243157	0.123760	0.213327	0.000000	0.000000
Taxes less subsidies	0.052698	0.023484	0.028913	0.000000	0.046235
Net operating surplus	0.000000	0.000000	0.000000	0.000000	0.000000
Value added	0.647928	0.573622	0.621120	0.337306	0.434988
Gross output	1.000000	1.000000	1.000000	1.000000	1.000000

Source: UNIDO secretariat

Section D

Major export markets for petrochemical products, by principal exporting country and recipient region 1975, 1980 and 1983

The tables in this section show where the export products of the petrochemical sector are marketed. The tables give regional totals as well as figures for the major exporting countries in each region.

The data source is the UNSO Commodity Trade Statistics. The regional totals are the same as the corresponding items in the A-tables. Here "World", however, contains the data reported under "Not elsewhere specified" whereas "Total" in the A-tables is the exact sum of the regional values without a "NES" row. Where a given country does not report on its external trade, its trading partners' reports have been used to estimate its exports and imports. Since these trade statistics are far from complete, particularly for the trade among the centrally planned economies (CPE), the use of partner data does not always close the gap. Therefore, the figures for these countries do not generally reflect CPE internal trade.

The appropriate export price indices from section F were used to express the current value figures in constant 1975 US dollars.

Table D.01.1. Exports of synthetic rubber in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	1,333,488	100.0	9.9	60.9	1.8	2.5	1.8	5.9	9.5	7.4	0.2
DEVELOPED MARKET	1,269,651	100.0	10.4	60.2	1.9	2.6	1.7	5.8	9.5	7.8	0.2
North America	356,239	100.0	29.2	37.6	3.4	4.3	0.9	2.5	19.5	2.6	-
Europe North	745,450	100.0	2.2	76.0	1.5	1.6	1.9	3.8	4.7	8.2	-
Europe South	5,066	100.0	1.2	87.6	-	-	1.8	4.1	5.2	-	-
Japan	159,209	100.0	7.1	36.9	-	3.1	2.6	22.9	9.7	17.5	-
Others	3,688	100.0	1.5	-	1.5	20.6	0.9	8.1	-	-	67.2
EUROPEAN CPE	52,746	100.0	0.1	89.8	0.3	-	4.3	3.9	1.6	-	-
Poland	10,338	100.0	0.4	82.9	-	-	1.9	9.1	5.8	-	-
USSR	14,317	100.0	-	97.2	0.6	-	0.4	-	1.7	-	-
Others	28,091	100.0	-	88.5	0.2	-	7.2	4.0	0.1	-	-
LATIN AMERICA	5,278	100.0	2.0	2.4	-	-	-	0.6	95.0	-	-
Argentina	3,287	100.0	-	2.6	-	-	-	-	97.4	-	-
Brazil	1,427	100.0	-	1.9	-	-	-	-	98.1	-	-
Mexico	463	100.0	19.7	-	-	-	-	-	80.3	-	-
Others	100	100.0	13.0	14.0	-	-	-	32.0	42.0	-	-
TROPICAL AFRICA	68	100.0	29.4	1.5	-	-	58.8	7.4	-	-	-
Kenya	39	100.0	-	-	-	-	100.0	-	-	-	-
Liberia	20	100.0	100.0	-	-	-	-	-	-	-	-
Others	9	100.0	-	11.1	-	-	11.1	55.6	-	-	-
NORTH AFRICA	6	100.0	-	100.0	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-	-	-
Sudan	6	100.0	-	100.0	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	115	100.0	-	21.7	-	-	61.7	14.8	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
Turkey	25	100.0	-	100.0	-	-	-	-	-	-	-
Others	90	100.0	-	1.1	-	-	78.9	18.9	-	-	-
SOUTH ASIA	103	100.0	-	26.2	-	-	-	47.6	11.7	14.6	-
India	37	100.0	-	10.8	-	-	-	89.2	-	-	-
Sri Lanka	34	100.0	-	67.6	-	-	-	-	35.3	-	-
Others	31	100.0	-	3.2	-	-	-	51.6	-	48.4	-
EAST ASIA (MFG)	3,247	100.0	-	7.6	1.4	-	6.5	84.3	0.2	-	-
Hong Kong	907	100.0	-	5.5	-	-	0.4	94.0	0.1	-	-
Korea Republic	214	100.0	-	-	21.5	-	-	77.1	0.9	-	-
Philippines	-	-	-	-	-	-	-	-	-	-	-
Singapore	2,125	100.0	-	9.3	-	-	9.7	80.8	0.1	-	-
Thailand	-	-	-	-	-	-	-	-	-	-	-
SOUTHEAST ASIA	1,825	100.0	3.7	20.3	9.2	44.7	-	16.9	5.4	-	-
Indonesia	246	100.0	19.9	69.5	-	-	-	-	10.6	-	-
Malaysia	488	100.0	3.7	13.1	-	8.4	-	60.9	14.1	-	-
Others	1,092	100.0	-	12.5	15.3	70.9	-	1.0	0.4	-	-
ASIAN CPE	369	100.0	-	11.9	-	-	53.4	34.7	-	-	-
China	325	100.0	-	-	-	-	60.6	39.4	-	-	-
Others	44	100.0	-	100.0	-	-	-	-	-	-	-
NES	81	100.0	-	6.2	-	75.3	18.5	-	-	-	-

Table D.01.11. Exports of synthetic rubber in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	2,057,345	100.0	9.7	60.3	2.5	3.0	1.6	7.7	8.7	6.3	0.1
DEVELOPED MARKET	1,930,623	100.0	10.1	59.3	2.6	3.2	1.6	7.9	8.5	6.7	0.1
North America	611,918	100.0	26.2	37.2	4.6	4.6	1.0	6.2	19.2	1.0	-
Europe North	1,121,898	100.0	1.9	76.9	2.0	2.2	2.0	4.0	3.2	7.8	-
Europe South	7,363	100.0	0.3	78.6	-	0.7	3.6	4.4	12.3	0.1	0.1
Japan	185,557	100.0	6.9	26.4	-	4.7	0.8	36.6	5.8	18.8	-
Others	3,887	100.0	0.2	0.3	-	18.5	-	14.3	0.1	-	66.6
EUROPEAN CPE	98,367	100.0	5.2	91.3	1.7	-	0.4	1.0	0.3	-	-
Poland	19,022	100.0	-	89.2	7.4	-	0.3	2.0	1.1	-	-
USSR	35,735	100.0	0.1	99.2	0.7	-	-	-	-	-	-
Others	43,611	100.0	11.6	85.8	0.1	0.1	0.8	1.3	0.3	-	-
LATIN AMERICA	19,872	100.0	0.2	26.6	-	-	0.8	0.3	72.2	-	-
Argentina	3,224	100.0	-	7.7	-	-	-	-	92.3	-	-
Brazil	8,309	100.0	-	59.4	-	-	1.9	0.4	38.2	-	-
Mexico	554	100.0	5.8	17.3	-	-	-	4.0	72.9	-	-
Others	7,785	100.0	-	-	-	-	-	-	100.0	-	-
TROPICAL AFRICA	166	100.0	-	74.1	-	-	22.3	3.6	-	-	-
Kenya	32	100.0	-	-	-	-	100.0	-	-	-	-
Liberia	-	-	-	-	-	-	-	-	-	-	-
Others	134	100.0	-	91.8	-	-	3.7	4.5	-	-	-
NORTH AFRICA	4	100.0	-	100.0	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Morocco	4	100.0	-	100.0	-	-	-	-	-	-	-
Sudan	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	85	100.0	-	17.6	-	-	20.0	47.1	-	15.3	-
Kuwait	17	100.0	-	-	-	-	100.0	-	-	-	-
Saudi Arabia	22	100.0	-	-	-	-	-	100.0	-	-	-
Turkey	45	100.0	-	33.3	-	-	-	37.8	-	28.9	-
Others	-	-	-	-	-	-	-	-	-	-	-
SOUTH ASIA	345	100.0	-	5.8	-	-	2.0	80.3	12.2	-	-
India	320	100.0	-	-	-	-	1.6	85.3	13.1	-	-
Sri Lanka	22	100.0	-	86.4	-	-	-	18.2	-	-	-
Others	2	100.0	-	50.0	-	-	50.0	-	-	-	-
EAST ASIA (MFG)	3,921	100.0	0.9	2.3	1.7	0.3	16.7	77.7	0.1	-	0.2
Hong Kong	1,374	100.0	-	0.9	-	-	0.7	98.2	0.1	-	-
Korea Republic	430	100.0	0.2	9.3	15.8	2.8	-	69.8	-	-	1.9
Philippines	-	-	-	-	-	-	-	-	-	-	-
Singapore	2,088	100.0	1.6	0.7	-	-	30.9	66.7	0.1	-	-
Thailand	29	100.0	-	86.2	-	-	-	13.8	-	-	-
SOUTHEAST ASIA	1,110	100.0	2.9	34.7	2.2	0.5	10.1	49.5	0.1	-	-
Indonesia	24	100.0	-	100.0	-	-	-	-	-	-	-
Malaysia	1,086	100.0	2.9	33.3	2.2	0.5	10.3	50.6	0.1	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
ASIAN CPE	2,671	100.0	-	3.7	0.9	0.5	1.7	92.9	0.3	-	-
China	2,671	100.0	-	3.7	0.9	0.5	1.7	92.9	0.3	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
NES	181	100.0	-	39.8	-	20.4	-	39.2	-	-	-

Table D.01.111. Exports of synthetic rubber in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	1,988,268	100.0	15.8	54.4	3.4	1.9	1.1	9.4	7.2	6.8	-
DEVELOPED MARKET	1,853,014	100.0	16.3	53.1	3.5	2.0	1.2	9.7	6.9	7.3	-
North America	574,643	100.0	38.4	26.7	6.6	2.8	0.3	5.7	15.8	3.6	-
Europe North	1,093,175	100.0	5.5	71.7	2.5	1.5	1.8	6.8	2.8	7.5	-
Europe South	14,484	100.0	6.9	80.2	-	0.3	3.6	4.6	1.8	2.6	-
Japan	168,255	100.0	11.5	20.2	-	2.8	0.4	41.6	4.1	19.3	-
Others	2,457	100.0	-	4.1	12.2	40.3	-	43.4	-	-	-
EUROPEAN CPE	84,118	100.0	0.3	97.8	1.5	-	-	0.3	0.1	-	-
Poland	16,810	100.0	-	94.6	4.4	-	-	0.5	0.5	-	-
USSR	37,762	100.0	0.6	98.7	0.6	-	-	0.1	-	-	-
Others	29,545	100.0	-	98.5	1.1	-	-	0.4	-	-	-
LATIN AMERICA	41,831	100.0	30.0	32.9	0.3	0.1	0.3	2.4	33.4	0.5	-
Argentina	6,299	100.0	7.8	48.7	-	-	-	-	43.5	-	-
Brazil	21,172	100.0	12.9	32.3	0.1	0.2	0.6	4.7	48.1	1.1	-
Mexico	14,155	100.0	66.1	26.8	0.9	-	-	-	6.2	-	-
Others	204	100.0	-	15.7	-	-	-	-	84.8	-	-
TROPICAL AFRICA	111	100.0	-	98.2	-	-	1.8	-	-	-	-
Kenya	-	-	-	-	-	-	-	-	-	-	-
Liberia	67	100.0	-	100.0	-	-	-	-	-	-	-
Others	44	100.0	-	95.5	-	-	4.5	-	-	-	-
NORTH AFRICA	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-	-	-
Sudan	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	1,457	100.0	-	-	-	-	-	100.0	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
Turkey	1,457	100.0	-	-	-	-	-	100.0	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
SOUTH ASIA	45	100.0	-	33.3	-	-	-	66.7	-	-	-
India	26	100.0	-	23.1	-	-	-	76.9	-	-	-
Sri Lanka	20	100.0	-	45.0	-	-	-	50.0	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
EAST ASIA (MFG)	4,728	100.0	0.3	3.4	-	0.3	-	94.6	-	1.4	-
Hong Kong	214	100.0	-	10.7	-	-	-	89.3	-	-	-
Korea Republic	3,297	100.0	0.5	-	-	0.4	-	99.2	-	-	-
Philippines	4	100.0	-	-	-	-	-	100.0	-	-	-
Singapore	1,174	100.0	-	11.8	-	-	-	82.6	-	5.5	-
Thailand	39	100.0	-	-	-	-	-	97.4	-	2.6	-
SOUTHEAST ASIA	1,091	100.0	-	50.2	38.5	1.1	-	8.9	1.4	-	-
Indonesia	39	100.0	-	100.0	-	-	-	-	-	-	-
Malaysia	1,052	100.0	-	48.4	39.9	1.1	-	9.2	1.4	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
ASIAN CPE	1,857	100.0	-	28.3	4.1	-	-	67.6	-	-	-
China	1,848	100.0	-	28.4	4.2	-	-	67.4	-	-	-
Others	9	100.0	-	-	-	-	-	100.0	-	-	-
NES	15	100.0	-	100.0	-	-	-	-	-	-	-

Table D.02.1. Exports of synthetic fibres in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	1,612.574	100.0	4.8	54.2	0.2	4.3	2.7	17.5	4.3	11.9	0.1
DEVELOPED MARKET	1,552.632	100.0	5.0	53.9	0.1	4.4	2.7	17.6	3.8	12.4	0.2
North America	168.463	100.0	23.5	35.1	0.7	7.1	1.1	13.9	16.7	1.7	0.2
Europe North	1,030.142	100.0	2.5	71.7	0.1	2.6	2.5	9.2	1.3	10.1	-
Europe South	27.883	100.0	0.1	35.3	-	0.6	13.7	28.8	0.3	21.1	0.1
Japan	323.652	100.0	3.8	9.0	-	8.9	3.0	45.1	5.5	24.4	0.3
Others	2.493	100.0	0.2	32.5	4.5	12.9	0.1	1.1	-	0.1	48.6
EUROPEAN CPE	36.231	100.0	0.7	94.3	-	-	3.0	1.9	-	-	-
German Dem. Rep.	16.380	100.0	-	97.0	-	-	2.5	0.5	0.1	-	-
Hungary	4.144	100.0	-	97.4	-	-	-	2.6	-	-	-
Others	15.706	100.0	1.7	90.8	-	-	4.4	3.1	-	-	-
LATIN AMERICA	10.745	100.0	0.6	6.3	-	-	-	0.6	92.3	0.2	-
Brazil	2.930	100.0	-	3.3	0.1	-	-	1.4	94.5	0.7	-
Mexico	3.939	100.0	0.3	10.0	-	-	-	-	89.7	-	-
Peru	476	100.0	-	-	-	-	-	-	100.0	-	-
Others	3.400	100.0	1.4	5.6	-	-	-	0.7	92.3	-	-
TROPICAL AFRICA	181	100.0	-	100.0	-	-	-	-	-	-	-
Ivory Coast	-	-	-	-	-	-	-	-	-	-	-
Kenya	-	-	-	-	-	-	-	-	-	-	-
Others	181	100.0	-	100.0	-	-	-	-	-	-	-
NORTH AFRICA	38	100.0	-	39.5	-	-	-	60.5	-	-	-
Egypt	22	100.0	-	-	-	-	-	100.0	-	-	-
Morocco	15	100.0	-	100.0	-	-	-	-	-	-	-
Sudan	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	2.135	100.0	-	14.8	-	-	23.5	61.7	-	-	-
Iran	23	100.0	-	91.3	-	-	-	8.7	-	-	-
Jordan	-	-	-	-	-	-	-	-	-	-	-
Turkey	735	100.0	-	37.1	-	-	59.9	3.0	-	-	-
Others	1.376	100.0	-	1.6	-	-	4.4	94.0	-	-	-
SOUTH ASIA	272	100.0	19.5	17.6	-	-	0.4	62.5	-	-	-
India	223	100.0	23.8	-	-	-	-	76.2	-	-	-
Pakistan	45	100.0	-	97.8	-	-	2.2	-	-	-	-
Others	4	100.0	-	100.0	-	-	-	-	-	-	-
EAST ASIA (MFG)	7,959	100.0	0.3	6.8	14.9	1.9	-	74.2	1.9	-	-
Hong Kong	1.570	100.0	0.3	3.3	-	3.8	-	86.8	5.9	-	-
Korea Republic	5.294	100.0	0.3	5.6	22.3	1.8	-	68.8	1.2	-	-
Philippines	229	100.0	-	83.8	-	-	-	16.2	-	-	-
Singapore	759	100.0	-	0.3	-	-	-	99.9	-	-	-
Thailand	106	100.0	-	-	-	-	-	100.0	-	-	-
SOUTHEAST ASIA	2.027	100.0	-	3.1	3.1	0.9	-	92.8	-	-	-
Indonesia	63	100.0	-	100.0	-	-	-	-	-	-	-
Malaysia	523	100.0	-	-	-	3.6	-	96.2	-	-	-
Others	1.441	100.0	-	-	4.4	-	-	95.6	-	-	-
ASIAN CPE	25	100.0	-	-	-	-	-	100.0	-	-	-
China	25	100.0	-	-	-	-	-	100.0	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
NES	330	100.0	-	6.4	-	73.3	4.8	15.5	-	-	-

Table D.02.11. Exports of synthetic fibres in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	2,411,526	100.0	3.1	45.5	0.5	5.1	3.6	18.6	5.2	18.1	0.3
DEVELOPED MARKET	2,294,497	100.0	3.3	46.6	0.4	5.3	3.7	17.5	4.7	18.5	0.1
North America	536,841	100.0	9.5	23.4	1.5	9.1	2.5	12.8	14.2	27.1	-
Europe North	1,285,567	100.0	1.5	69.8	0.1	4.4	4.2	7.6	1.4	11.0	-
Europe South	78,661	100.0	0.1	31.2	-	0.2	12.3	21.5	4.3	30.5	-
Japan	389,993	100.0	1.2	5.5	-	3.8	1.7	55.7	2.6	29.4	-
Others	3,435	100.0	4.3	8.6	-	3.6	-	0.1	0.1	-	83.3
EUROPEAN CPE	22,527	100.0	2.0	88.6	-	0.3	6.6	2.6	-	-	-
German Dem. Rep.	7,989	100.0	-	95.6	-	-	3.5	1.0	-	-	-
Hungary	2,365	100.0	-	62.9	-	-	37.1	-	-	-	-
Others	12,172	100.0	3.6	89.1	-	0.5	2.7	4.1	-	-	-
LATIN AMERICA	18,708	100.0	0.2	5.3	-	0.2	-	-	94.3	-	-
Brazil	2,721	100.0	-	0.9	-	-	-	-	99.2	-	-
Mexico	4,937	100.0	0.7	12.3	-	-	-	-	86.9	-	-
Peru	9,931	100.0	-	2.2	-	-	-	-	97.8	-	-
Others	1,118	100.0	0.1	12.9	-	2.7	-	-	84.3	-	-
TROPICAL AFRICA	44	100.0	-	-	-	-	27.3	43.2	29.5	-	-
Ivory Coast	19	100.0	-	-	-	-	-	100.0	-	-	-
Kenya	11	100.0	-	-	-	-	100.0	-	-	-	-
Others	14	100.0	-	-	-	-	7.1	-	92.9	-	-
NORTH AFRICA	1,982	100.0	0.1	83.1	-	-	14.5	2.3	-	-	-
Egypt	1,694	100.0	0.1	80.3	-	-	17.0	2.7	-	-	-
Morocco	176	100.0	-	100.0	-	-	-	-	-	-	-
Sudan	71	100.0	-	100.0	-	-	-	-	-	-	-
Others	42	100.0	-	100.0	-	-	-	-	-	-	-
WEST ASIA	7,663	100.0	-	90.6	-	-	-	9.4	-	-	-
Iran	41	100.0	-	100.0	-	-	-	-	-	-	-
Jordan	33	100.0	-	-	-	-	-	100.0	-	-	-
Turkey	7,588	100.0	-	91.0	-	-	-	9.0	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
SOUTH ASIA	114	100.0	56.1	28.1	-	-	15.8	-	-	-	-
India	86	100.0	74.4	4.7	-	-	20.9	-	-	-	-
Pakistan	2	100.0	-	100.0	-	-	-	-	-	-	-
Others	26	100.0	-	100.0	-	-	-	-	-	-	-
EAST ASIA (MFG)	36,870	100.0	-	0.3	6.4	0.1	-	79.7	-	0.9	12.5
Hong Kong	290	100.0	3.4	18.6	-	-	-	73.4	-	4.5	-
Korea Republic	29,117	100.0	-	0.1	8.1	0.1	-	75.9	-	-	15.8
Philippines	34	100.0	2.9	-	23.5	-	-	76.5	-	-	-
Singapore	3,483	100.0	-	-	-	0.3	-	90.2	-	9.5	-
Thailand	3,946	100.0	-	0.5	-	-	-	99.5	-	-	-
SOUTHEAST ASIA	27,599	100.0	-	-	0.6	0.6	-	61.6	-	37.3	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Malaysia	27,587	100.0	-	-	0.6	0.6	-	61.5	-	37.3	-
Others	12	100.0	-	-	-	-	-	100.0	-	-	-
ASIAN CPE	769	100.0	-	1.8	-	-	83.0	15.2	-	-	-
China	92	100.0	-	15.2	-	-	-	83.7	-	-	-
Others	677	100.0	-	-	-	-	94.2	5.9	-	-	-
NES	753	100.0	-	0.3	-	98.9	0.8	-	-	-	-

Table D.02.111. Exports of synthetic fibres in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	2,335,937	100.0	6.0	49.6	0.4	3.1	3.7	22.6	4.0	10.6	-
DEVELOPED MARKET	2,196,772	100.0	5.9	50.4	0.4	3.3	3.9	21.4	3.5	11.0	-
North America	410,376	100.0	15.7	31.7	1.9	8.3	6.6	12.5	15.5	7.9	-
Europe North	1,288,000	100.0	4.1	71.8	0.1	1.6	3.1	9.2	0.6	9.4	-
Europe South	89,135	100.0	0.2	39.1	-	0.4	9.9	25.7	2.2	22.5	-
Japan	407,896	100.0	2.7	4.4	-	4.5	2.4	68.1	1.0	16.9	-
Others	1,365	100.0	61.4	27.4	-	6.6	-	4.6	-	-	-
EUROPEAN CPE	28,126	100.0	1.7	95.2	-	-	-	3.1	-	-	-
German Dem. Rep.	7,156	100.0	-	93.7	-	-	-	6.3	-	-	-
Hungary	2,735	100.0	-	100.0	-	-	-	-	-	-	-
Others	18,234	100.0	2.6	95.1	-	-	-	2.3	-	-	-
LATIN AMERICA	31,929	100.0	28.1	0.5	0.1	-	0.6	3.1	48.8	18.8	-
Brazil	14,121	100.0	0.4	-	-	0.1	1.4	0.1	55.6	42.5	-
Mexico	8,384	100.0	89.7	1.9	0.2	-	-	8.2	-	-	-
Peru	7,653	100.0	0.1	-	-	-	-	-	99.9	-	-
Others	1,771	100.0	77.9	0.1	-	-	-	16.2	5.7	-	-
TROPICAL AFRICA	26	100.0	-	100.0	-	-	-	-	-	-	-
Ivory Coast	-	-	-	-	-	-	-	-	-	-	-
Kenya	-	-	-	-	-	-	-	-	-	-	-
Others	26	100.0	-	100.0	-	-	-	-	-	-	-
NORTH AFRICA	586	100.0	-	100.0	-	-	-	-	-	-	-
Egypt	586	100.0	-	100.0	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-	-	-
Sudan	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	46,420	100.0	0.3	45.9	-	-	0.2	53.6	-	-	-
Iran	22	100.0	-	100.0	-	-	-	-	-	-	-
Jordan	-	-	-	-	-	-	-	-	-	-	-
Turkey	46,384	100.0	0.3	45.8	-	-	0.2	53.6	-	-	-
Others	14	100.0	-	100.0	-	-	-	-	-	-	-
SOUTH ASIA	1,587	100.0	3.1	1.6	-	-	-	95.3	-	-	-
India	27	100.0	-	11.1	-	-	-	88.9	-	-	-
Pakistan	202	100.0	-	11.4	-	-	-	88.6	-	-	-
Others	1,358	100.0	3.6	-	-	-	-	96.5	-	-	-
EAST ASIA (MFG)	19,251	100.0	1.0	0.1	6.5	0.2	-	91.3	-	0.9	-
Hong Kong	189	100.0	0.5	2.1	-	-	-	8.5	-	88.9	-
Korea Republic	12,912	100.0	1.4	0.1	9.7	0.4	-	88.4	-	-	-
Philippines	5	100.0	-	80.0	20.0	-	-	-	-	-	-
Singapore	2,724	100.0	-	-	-	-	-	100.0	-	-	-
Thailand	3,420	100.0	-	-	-	-	-	100.0	-	-	-
SOUTHEAST ASIA	10,497	100.0	-	2.4	-	1.2	1.7	94.6	-	-	-
Indonesia	247	100.0	-	-	-	-	70.9	28.7	-	-	-
Malaysia	10,225	100.0	-	2.5	-	1.3	-	96.2	-	-	-
Others	26	100.0	-	-	-	-	-	100.0	-	-	-
ASIAN CPE	717	100.0	-	11.3	-	-	-	88.7	-	-	-
China	695	100.0	-	11.7	-	-	-	88.3	-	-	-
Others	22	100.0	-	-	-	-	-	100.0	-	-	-
NES	26	100.0	-	100.0	-	-	-	-	-	-	-

Table D.03.1. Exports of organic chemicals in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	14,918,157	100.0	9.1	55.0	3.0	3.3	2.2	9.4	10.5	7.0	0.3
DEVELOPED MARKET	13,956,278	100.0	9.2	55.7	2.9	3.5	2.0	8.9	10.6	7.1	0.2
North America	3,104,862	100.0	12.6	38.5	6.0	5.3	1.4	8.2	26.6	1.2	0.1
Europe North	9,366,951	100.0	7.2	65.8	2.2	2.6	2.4	5.3	6.0	8.4	-
Europe South	328,629	100.0	4.6	63.6	0.5	2.6	3.2	6.7	6.6	12.2	0.1
Japan	1,089,566	100.0	17.7	17.7	-	4.8	0.6	41.5	5.5	11.9	0.4
Others	66,269	100.0	3.2	22.5	9.7	22.4	1.9	12.9	2.2	0.2	25.0
EUROPEAN CPE	489,795	100.0	3.5	54.9	2.1	0.3	7.1	16.1	2.2	10.5	3.2
Czechoslovakia	90,935	100.0	2.1	37.4	0.3	0.3	2.3	6.0	0.6	33.5	17.5
USSR	105,074	100.0	1.0	66.4	4.9	0.1	2.3	17.7	0.2	7.4	-
Others	293,787	100.0	4.8	56.2	1.7	0.4	10.3	18.7	3.4	4.5	-
LATIN AMERICA	263,215	100.0	21.1	38.0	6.5	1.1	0.7	2.6	29.5	0.5	-
Argentina	39,475	100.0	21.4	36.5	5.0	1.3	0.1	0.4	35.3	-	-
Brazil	64,639	100.0	26.6	26.5	18.0	0.9	0.5	4.2	22.5	0.7	-
Mexico	28,362	100.0	20.6	22.2	2.9	4.2	0.1	5.8	44.2	-	-
Others	130,738	100.0	18.4	47.5	2.0	0.4	1.2	1.8	28.1	0.6	-
TROPICAL AFRICA	9,784	100.0	1.2	67.3	0.1	0.8	28.6	1.2	0.3	-	0.5
Nigeria	1,950	100.0	-	96.0	-	-	3.9	-	-	-	-
Zaire	1,345	100.0	8.6	85.7	0.4	3.1	2.2	-	-	-	-
Others	6,490	100.0	-	54.9	-	0.6	41.4	1.9	0.4	-	0.8
NORTH AFRICA	3,287	100.0	1.1	50.5	0.2	-	5.0	0.4	1.6	41.1	0.1
Algeria	839	100.0	-	86.3	-	-	8.7	0.2	4.8	-	-
Egypt	1,546	100.0	2.4	8.1	0.4	-	0.3	0.7	0.7	87.3	-
Libyan Arab Jm	92	100.0	-	100.0	-	-	-	-	-	-	-
Others	809	100.0	-	88.8	-	-	10.5	-	0.2	-	0.5
WEST ASIA	37,048	100.0	-	23.2	0.1	-	9.0	66.3	0.1	0.1	1.2
Qatar	3,942	100.0	-	-	-	-	-	100.0	-	-	-
Saudi Arabia	2,066	100.0	-	1.2	-	-	-	75.8	0.2	1.6	21.1
Turkey	3,357	100.0	-	66.2	1.1	-	10.5	22.2	-	-	-
Others	27,683	100.0	-	22.9	-	-	10.8	66.2	0.1	-	-
SOUTH ASIA	15,179	100.0	3.6	39.0	26.2	1.7	7.5	14.7	0.8	6.5	-
India	9,401	100.0	5.7	32.2	27.3	2.4	8.3	12.5	1.2	10.4	-
Pakistan	4,069	100.0	-	42.6	25.9	-	8.9	22.5	-	-	-
Others	1,710	100.0	0.2	68.1	20.9	2.2	-	8.3	0.4	-	-
EAST ASIA (MFG)	73,126	100.0	7.3	18.5	17.6	2.2	1.0	49.3	3.6	0.4	0.1
Hong Kong	3,228	100.0	19.1	14.5	0.9	10.8	20.4	27.3	6.3	-	0.8
Korea Republic	31,117	100.0	13.6	36.6	31.8	2.2	0.1	10.2	4.8	0.6	-
Philippines	5,710	100.0	0.3	27.8	46.0	1.7	-	22.1	2.1	-	-
Singapore	30,501	100.0	-	0.3	0.1	1.1	-	98.0	0.1	0.2	0.2
Thailand	2,570	100.0	17.7	0.4	12.5	6.1	-	34.0	29.1	0.3	-
SOUTHEAST ASIA	7,683	100.0	3.3	15.7	15.0	2.3	0.7	62.8	0.1	-	0.1
Indonesia	2,217	100.0	-	43.8	37.8	-	2.5	15.8	-	-	-
Malaysia	3,401	100.0	7.4	2.4	9.2	4.7	-	76.4	-	-	-
Others	2,066	100.0	-	7.6	-	1.0	-	90.8	0.4	-	0.3
ASIAN CPE	54,104	100.0	2.8	49.6	10.5	2.4	4.3	28.9	1.5	-	-
China	53,856	100.0	2.9	49.4	10.5	2.4	4.3	29.0	1.5	-	-
Others	247	100.0	-	83.4	9.3	-	6.1	1.2	-	-	-
NES	8,658	100.0	0.3	2.9	-	43.7	20.5	4.3	0.4	28.0	-

Table D.03.11. Exports of organic chemicals in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	22,382,794	100.0	8.8	57.0	4.1	3.2	1.9	9.6	8.9	6.4	0.1
DEVELOPED MARKET	20,861,545	100.0	8.7	58.1	3.5	3.3	2.0	9.2	8.8	6.4	0.1
North America	4,424,534	100.0	14.4	31.6	10.0	5.5	1.5	11.4	24.5	1.0	-
Europe North	14,523,823	100.0	6.7	69.6	1.7	2.3	2.2	5.5	4.6	7.3	-
Europe South	585,143	100.0	3.2	60.0	2.8	1.9	4.2	11.9	4.9	11.0	-
Japan	1,253,803	100.0	15.2	19.6	-	6.0	0.4	42.6	4.3	11.8	-
Others	74,241	100.0	3.9	14.1	18.7	13.8	2.2	14.1	0.7	-	32.5
EUROPEAN CPE	509,518	100.0	1.6	70.3	2.5	0.1	1.3	5.6	1.8	16.6	0.2
Czechoslovakia	51,291	100.0	0.3	81.6	0.4	-	1.8	6.1	0.4	9.3	-
USSR	110,141	100.0	1.1	74.7	3.8	-	3.7	4.4	0.2	12.1	-
Others	348,086	100.0	2.0	67.3	2.3	0.2	0.4	5.9	2.6	19.1	0.2
LATIN AMERICA	501,219	100.0	20.9	29.7	11.8	2.2	0.2	3.7	30.4	0.9	0.2
Argentina	90,603	100.0	28.8	21.8	11.9	0.4	0.2	1.9	32.3	2.6	-
Brazil	182,730	100.0	25.2	26.8	21.5	2.9	0.3	2.0	20.3	0.9	-
Mexico	77,919	100.0	13.9	35.3	9.4	1.8	-	16.0	23.7	-	-
Others	149,967	100.0	14.3	35.1	1.3	2.7	0.1	0.5	44.9	0.3	0.7
TROPICAL AFRICA	7,519	100.0	13.3	72.5	1.3	2.3	7.5	1.0	2.1	-	-
Nigeria	1,411	100.0	-	99.5	-	-	0.5	-	-	-	-
Zaire	1,811	100.0	51.1	43.0	5.4	-	0.6	-	-	-	-
Others	4,297	100.0	1.7	76.0	-	4.0	12.8	1.7	3.7	-	-
NORTH AFRICA	52,294	100.0	2.7	82.1	4.9	-	-	10.2	-	-	-
Algeria	5,810	100.0	-	98.0	-	-	-	2.0	-	-	-
Egypt	1,116	100.0	2.2	87.5	0.4	-	1.5	7.2	1.3	-	-
Libyan Arab Jm	44,271	100.0	3.2	79.5	5.7	-	-	11.6	-	-	-
Others	1,096	100.0	-	99.0	-	-	-	-	-	-	0.9
WEST ASIA	18,506	100.0	1.4	24.2	0.1	0.4	0.9	70.2	1.6	1.3	-
Qatar	2,854	100.0	-	0.2	-	-	-	99.8	-	-	-
Saudi Arabia	3,412	100.0	-	0.8	-	-	0.1	92.2	7.0	-	-
Turkey	8,159	100.0	-	29.5	-	0.8	1.7	64.7	0.7	2.6	-
Others	4,082	100.0	6.2	50.0	0.3	0.5	0.6	42.3	0.1	-	-
SOUTH ASIA	21,255	100.0	6.9	35.2	11.0	0.9	1.1	25.0	0.2	19.7	-
India	11,019	100.0	13.3	32.0	4.1	1.0	2.0	9.8	0.4	37.4	-
Pakistan	5,308	100.0	-	0.2	27.4	-	0.4	72.0	-	-	-
Others	4,928	100.0	0.1	79.9	8.7	1.5	-	8.3	-	1.4	-
EAST ASIA (MFG)	222,936	100.0	8.1	7.7	36.7	2.3	0.2	42.6	0.4	1.7	0.2
Hong Kong	2,459	100.0	7.2	18.7	1.1	14.0	11.8	39.3	7.6	0.2	-
Korea Republic	94,749	100.0	17.3	12.9	57.2	4.4	0.1	7.0	0.5	0.2	0.4
Philippines	20,215	100.0	0.5	3.2	87.1	0.4	-	8.8	-	-	-
Singapore	91,972	100.0	0.9	3.4	0.9	0.4	0.2	90.2	0.1	3.9	-
Thailand	4,540	100.0	11.7	11.9	28.3	1.1	-	44.0	0.3	2.7	-
SOUTHEAST ASIA	9,090	100.0	2.6	9.4	32.7	4.2	0.1	49.5	0.6	0.6	0.1
Indonesia	5,793	100.0	4.1	11.5	51.3	3.5	-	29.2	0.4	-	-
Malaysia	3,167	100.0	-	3.4	0.1	4.8	0.2	88.2	1.0	2.3	-
Others	129	100.0	-	59.7	-	19.4	-	13.2	-	-	7.8
ASIAN CPE	169,768	100.0	7.8	31.7	23.0	2.2	0.4	33.9	1.2	0.1	-
China	169,298	100.0	7.6	31.6	23.1	2.2	0.4	33.8	1.2	0.1	-
Others	470	100.0	-	48.5	1.7	-	0.2	48.9	0.4	-	-
NES	9,146	100.0	0.8	12.2	-	50.4	6.8	30.3	-	-	-

Table D.03.111. Exports of organic chemicals in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	24,731,242	100.0	11.9	55.3	5.3	2.9	1.5	11.9	6.8	4.3	-
DEVELOPED MARKET	22,686,359	100.0	11.3	56.4	4.7	3.0	1.6	11.3	6.9	4.6	-
North America	4,545,133	100.0	18.8	27.6	12.9	4.9	1.0	14.9	19.1	0.7	-
Europe North	16,082,168	100.0	8.4	67.5	2.7	2.4	1.9	8.3	3.9	4.9	-
Europe South	644,080	100.0	9.1	61.5	3.3	1.8	2.3	8.6	5.0	8.5	0.1
Japan	1,364,303	100.0	21.2	21.1	-	4.8	0.5	35.9	3.4	13.1	-
Others	50,675	100.0	20.5	18.9	34.2	14.7	0.1	11.3	0.4	-	-
EUROPEAN CPE	546,081	100.0	1.8	89.8	3.1	-	0.1	5.1	0.1	-	-
Czechoslovakia	114,643	100.0	1.2	97.0	1.2	-	0.1	0.5	-	-	-
USSR	108,694	100.0	1.3	91.5	3.1	-	-	4.1	-	-	-
Others	322,743	100.0	2.2	86.6	3.8	-	0.1	7.1	0.2	-	-
LATIN AMERICA	761,008	100.0	40.9	22.4	12.2	1.6	0.3	7.4	14.6	0.5	-
Argentina	79,372	100.0	50.0	22.8	16.1	-	-	9.4	1.7	-	-
Brazil	394,443	100.0	28.5	22.8	15.4	2.5	0.5	9.5	19.7	0.9	-
Mexico	84,944	100.0	29.6	33.1	15.1	0.6	-	13.3	8.3	-	-
Others	202,250	100.0	66.3	17.0	3.3	0.8	-	0.1	12.5	-	-
TROPICAL AFRICA	7,685	100.0	11.6	73.4	0.6	-	4.9	8.9	0.6	-	-
Nigeria	1,478	100.0	-	100.0	-	-	-	-	-	-	-
Zaire	2,127	100.0	34.3	62.4	2.1	-	1.2	-	-	-	-
Others	4,080	100.0	4.0	69.5	-	-	8.5	16.7	1.2	-	-
NORTH AFRICA	63,804	100.0	0.8	77.9	2.2	-	0.1	19.0	-	-	-
Algeria	17,146	100.0	2.9	97.1	-	-	-	-	-	-	-
Egypt	1,489	100.0	1.3	85.8	4.0	-	-	9.1	-	-	-
Libyan Arab Jm	44,455	100.0	-	70.0	3.1	-	-	26.9	-	-	-
Others	713	100.0	-	90.6	-	-	5.3	4.1	-	-	-
WEST ASIA	57,647	100.0	0.9	14.2	38.4	0.1	0.5	45.6	-	0.3	-
Qatar	5,963	100.0	-	-	-	-	-	100.0	-	-	-
Saudi Arabia	30,688	100.0	-	9.3	70.6	-	-	20.1	-	-	-
Turkey	17,667	100.0	0.6	17.2	0.3	-	1.5	79.3	-	1.1	-
Others	3,329	100.0	13.0	67.8	12.1	2.6	-	4.5	-	-	-
SOUTH ASIA	19,301	100.0	19.4	46.4	23.3	0.9	-	9.9	0.1	-	-
India	14,116	100.0	26.3	52.3	14.5	0.8	-	5.9	0.1	-	-
Pakistan	3,755	100.0	-	24.4	64.8	-	-	10.8	-	-	-
Others	1,430	100.0	2.7	45.1	1.0	4.3	-	46.9	-	-	-
EAST ASIA (MFG)	373,891	100.0	8.6	18.4	18.7	4.3	0.2	47.3	0.4	2.1	-
Hong Kong	2,295	100.0	17.5	17.3	2.4	1.5	6.5	44.3	2.9	7.7	-
Korea Republic	89,445	100.0	32.0	15.3	39.9	0.6	-	12.2	-	-	-
Philippines	16,199	100.0	-	3.4	88.5	0.1	-	8.1	-	-	-
Singapore	259,082	100.0	1.0	20.5	6.1	5.9	0.3	62.8	0.6	2.8	-
Thailand	6,870	100.0	7.3	14.2	58.0	3.0	-	12.9	-	4.5	-
SOUTHEAST ASIA	17,155	100.0	11.7	12.4	18.8	2.2	-	54.3	-	0.7	-
Indonesia	7,508	100.0	12.0	13.1	32.9	4.0	-	36.5	-	1.5	-
Malaysia	9,599	100.0	11.4	11.4	7.8	0.9	-	68.5	-	-	-
Others	49	100.0	-	91.8	-	-	-	-	-	-	6.1
ASIAN CPE	196,078	100.0	12.2	33.6	21.5	0.2	0.1	32.1	0.4	-	-
China	195,854	100.0	12.2	33.7	21.5	0.2	0.1	32.0	0.4	-	-
Others	224	100.0	-	6.7	-	-	-	92.9	0.4	-	-
NES	2,234	100.0	6.1	86.9	-	-	6.4	0.4	0.2	-	-

Table D.04.1. Exports of plastics and synthetic resins in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	9,487,674	100.0	5.4	63.2	1.0	3.0	3.3	10.4	5.9	7.5	0.2
DEVELOPED MARKET	9,291,766	100.0	5.5	63.9	0.9	3.0	3.2	10.0	5.6	7.7	0.2
North America	997,547	100.0	28.9	29.1	5.9	4.2	0.4	8.4	22.1	0.7	0.3
Europe North	7,254,540	100.0	2.0	76.5	0.4	2.4	3.7	4.6	3.1	7.4	-
Europe South	109,749	100.0	3.5	27.6	0.9	1.5	8.1	20.2	3.2	34.7	0.2
Japan	884,632	100.0	8.0	7.2	-	5.5	1.4	54.2	8.6	14.9	0.3
Others	45,298	100.0	0.5	4.8	1.4	30.5	1.5	33.0	0.9	6.9	20.5
EUROPEAN CPE	56,680	100.0	-	75.6	4.1	-	12.2	6.0	2.1	-	-
Czechoslovakia	10,749	100.0	-	88.8	-	-	3.1	4.9	3.2	-	-
German Dem. Rep.	21,784	100.0	-	69.9	-	0.1	25.4	3.0	1.7	-	-
Others	24,147	100.0	-	75.0	9.6	-	4.3	9.2	1.9	-	-
LATIN AMERICA	55,178	100.0	6.9	28.3	0.1	0.4	0.3	0.3	63.7	-	-
Argentina	7,171	100.0	0.8	68.8	-	0.3	-	-	30.0	-	-
Brazil	20,111	100.0	14.1	45.0	-	0.9	0.9	-	39.2	-	-
Chile	14,134	100.0	-	-	-	-	-	-	100.0	-	-
Others	13,761	100.0	6.8	11.9	0.3	-	-	1.0	80.0	-	-
TROPICAL AFRICA	2,336	100.0	0.1	8.2	-	-	82.6	-	2.5	-	6.6
Ivory Coast	637	100.0	-	10.0	-	-	64.7	-	1.3	-	24.0
Kenya	412	100.0	0.5	4.1	-	-	94.9	-	-	-	0.2
Others	1,287	100.0	-	8.6	-	-	87.4	-	3.9	-	-
NORTH AFRICA	806	100.0	-	7.3	-	-	89.7	3.0	-	-	-
Egypt	59	100.0	-	-	-	-	100.0	-	-	-	-
Morocco	533	100.0	-	6.4	-	-	91.6	2.1	-	-	-
Tunisia	169	100.0	-	7.1	-	-	93.5	-	-	-	-
Others	45	100.0	-	28.9	-	-	42.2	28.9	-	-	-
WEST ASIA	15,585	100.0	-	4.6	-	-	50.5	43.3	0.2	-	1.4
Cyprus	71	100.0	-	50.7	-	-	16.9	31.0	-	-	2.8
Lebanon	11,224	100.0	-	3.2	-	-	53.6	42.9	0.3	-	-
Turkey	205	100.0	-	10.7	-	-	-	89.3	-	-	-
Others	4,085	100.0	-	7.3	-	-	45.0	42.2	-	-	5.4
SOUTH ASIA	1,849	100.0	-	23.0	-	0.1	32.6	38.4	5.8	-	-
India	1,525	100.0	-	25.3	-	0.1	39.5	34.4	0.5	-	-
Pakistan	152	100.0	-	9.2	-	-	-	25.7	65.1	-	-
Others	172	100.0	-	14.5	-	-	-	86.0	-	-	-
EAST ASIA (MFG)	50,398	100.0	1.1	2.5	11.9	3.0	3.2	73.5	2.7	2.1	0.1
Hong Kong	4,386	100.0	1.6	3.0	0.7	3.7	27.4	40.6	22.8	0.2	-
Korea Republic	8,352	100.0	2.0	4.4	51.8	0.8	-	36.8	4.1	-	-
Philippines	4,200	100.0	0.2	1.5	25.8	4.7	-	67.8	-	-	-
Singapore	30,044	100.0	0.1	1.7	0.7	3.5	1.2	89.2	-	3.4	0.1
Thailand	3,417	100.0	7.7	5.4	10.2	0.8	1.1	74.0	0.2	0.4	-
SOUTHEAST ASIA	8,337	100.0	0.6	0.8	0.1	1.1	2.5	94.1	0.4	-	0.4
Indonesia	53	100.0	-	11.3	17.0	1.9	20.8	49.1	-	-	-
Malaysia	4,227	100.0	1.2	0.2	-	2.2	4.7	90.9	0.8	-	-
Others	4,057	100.0	-	1.2	-	-	-	98.0	-	-	0.8
ASIAN CPE	2,619	100.0	-	5.6	-	0.5	37.4	49.0	7.4	-	-
China	2,243	100.0	-	6.4	-	0.5	43.6	40.7	8.7	-	-
Others	376	100.0	-	0.5	-	-	0.5	98.9	-	-	-
NES	2,120	100.0	-	3.3	-	73.1	15.6	8.0	-	-	-

Table D.04.11. Exports of plastics and synthetic resins in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	15,598,480	100.0	4.0	64.9	1.3	2.8	3.8	11.3	5.6	5.9	0.4
DEVELOPED MARKET	15,013,468	100.0	4.1	66.2	1.2	2.8	3.9	10.5	5.3	5.9	0.2
North America	1,896,645	100.0	13.6	23.7	6.3	5.8	2.3	19.7	24.8	3.9	-
Europe North	11,816,729	100.0	2.1	78.3	0.4	1.9	4.1	5.8	2.2	5.1	-
Europe South	281,785	100.0	1.7	47.0	0.9	2.5	12.7	12.1	7.4	15.5	-
Japan	930,875	100.0	10.7	10.5	-	6.4	1.2	49.6	4.5	17.0	-
Others	87,435	100.0	0.7	4.0	0.6	20.5	2.1	25.3	6.1	-	40.7
EUROPEAN CPE	241,853	100.0	0.1	66.6	1.0	0.7	2.3	10.9	0.8	17.6	-
Czechoslovakia	80,292	100.0	-	78.6	0.1	0.1	0.7	11.1	0.1	9.3	-
German Dem. Rep.	45,494	100.0	-	73.1	-	-	2.3	2.1	0.5	22.0	-
Others	116,067	100.0	0.1	55.7	1.9	1.5	3.4	14.3	1.3	21.7	-
LATIN AMERICA	96,434	100.0	5.7	9.1	0.9	1.6	1.6	4.3	76.8	-	-
Argentina	4,936	100.0	3.2	32.7	0.1	-	0.8	3.9	59.3	-	-
Brazil	51,444	100.0	4.1	10.7	1.8	2.1	2.8	7.5	71.1	-	-
Chile	15,323	100.0	0.1	-	-	3.1	-	-	96.8	-	-
Others	24,732	100.0	13.0	6.7	-	-	0.1	0.5	79.5	-	0.1
TROPICAL AFRICA	2,585	100.0	2.1	5.1	0.2	-	91.1	1.6	0.1	-	-
Ivory Coast	875	100.0	-	-	-	-	99.9	-	-	-	-
Kenya	494	100.0	-	-	-	-	96.4	3.6	-	-	-
Others	1,217	100.0	4.4	10.8	0.3	-	82.5	1.9	0.2	-	-
NORTH AFRICA	1,022	100.0	0.6	20.5	-	-	19.8	59.2	-	-	-
Egypt	659	100.0	-	-	-	-	8.0	91.8	-	-	-
Morocco	124	100.0	-	23.4	-	-	76.6	-	-	-	-
Tunisia	220	100.0	2.7	73.6	-	-	23.6	-	-	-	-
Others	21	100.0	-	85.7	-	-	9.5	-	-	-	-
WEST ASIA	6,642	100.0	0.1	6.1	-	-	16.5	76.8	-	0.5	-
Cyprus	1,357	100.0	-	4.3	-	-	9.6	86.1	-	-	-
Lebanon	1,895	100.0	-	-	-	-	45.0	54.9	-	-	-
Turkey	661	100.0	-	37.8	-	-	3.0	54.6	-	4.5	-
Others	2,729	100.0	0.1	3.6	-	-	3.5	92.7	-	0.1	-
SOUTH ASIA	4,193	100.0	2.3	28.8	0.5	3.0	5.2	40.5	15.5	4.1	-
India	3,730	100.0	2.6	28.9	0.5	3.4	5.8	39.0	15.2	4.6	-
Pakistan	344	100.0	-	28.8	-	0.6	-	70.3	-	-	-
Others	119	100.0	-	26.1	2.5	-	-	1.7	69.7	-	-
EAST ASIA (MFG)	180,387	100.0	1.7	2.0	14.8	3.2	0.2	59.9	0.4	2.5	12.4
Hong Kong	15,517	100.0	4.9	2.9	9.7	1.2	10.8	44.3	2.5	23.7	-
Korea Republic	86,732	100.0	0.6	1.6	27.0	2.6	1.2	41.0	0.2	-	25.8
Philippines	7,171	100.0	21.5	1.8	18.2	4.5	-	54.0	0.1	-	-
Singapore	63,656	100.0	0.3	1.0	0.6	4.9	4.7	87.2	0.1	1.2	-
Thailand	7,311	100.0	0.4	12.6	1.3	0.3	0.2	85.1	-	0.1	-
SOUTHEAST ASIA	8,420	100.0	11.8	5.1	0.1	5.8	1.4	75.0	0.6	-	0.3
Indonesia	53	100.0	-	1.9	5.7	-	81.1	9.4	-	-	-
Malaysia	8,108	100.0	12.2	4.5	0.1	6.0	0.9	75.8	0.6	-	-
Others	260	100.0	-	26.9	-	1.5	-	62.7	-	-	8.8
ASIAN CPE	40,983	100.0	-	4.5	7.4	2.4	1.6	83.9	0.2	-	-
China	38,870	100.0	-	4.7	7.8	2.5	1.6	83.1	0.2	-	-
Others	2,114	100.0	-	0.2	-	-	1.4	98.3	-	-	-
NES	2,491	100.0	-	6.3	-	38.6	33.5	12.4	8.5	0.6	-

Table D.04.111. Exports of plastics and synthetic resins in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	18,284,820	100.0	6.8	61.4	2.0	2.7	3.3	14.0	4.4	5.5	-
DEVELOPED MARKET	17,351,042	100.0	6.7	62.9	1.7	2.8	3.4	12.8	4.2	5.4	-
North America	2,274,358	100.0	20.7	22.1	8.8	4.9	1.4	19.9	19.1	3.1	-
Europe North	13,296,211	100.0	3.5	76.2	0.7	2.0	3.7	7.5	1.7	4.6	-
Europe South	391,151	100.0	4.3	37.1	1.1	2.7	10.8	21.8	9.6	12.6	-
Japan	1,299,682	100.0	16.5	9.1	-	5.5	0.9	50.1	1.9	15.9	-
Others	89,640	100.0	0.7	12.4	4.8	38.9	0.2	42.8	0.1	-	0.1
EUROPEAN CPE	324,519	100.0	0.3	79.7	4.0	-	-	15.8	-	-	-
Czechoslovakia	81,697	100.0	-	88.9	-	-	-	11.1	-	-	-
German Dem. Rep.	72,083	100.0	0.3	98.0	0.4	-	0.1	1.3	-	-	-
Others	170,739	100.0	0.5	67.6	7.5	-	-	24.3	-	-	-
LATIN AMERICA	285,393	100.0	17.6	8.9	2.9	1.1	3.8	23.0	27.3	15.4	-
Argentina	29,724	100.0	50.1	44.0	5.4	-	-	0.3	0.2	-	-
Brazil	198,328	100.0	7.0	4.7	0.4	0.4	5.2	31.7	28.5	22.1	-
Chile	1,502	100.0	-	0.3	89.3	-	-	-	10.5	-	-
Others	55,838	100.0	38.4	5.4	8.1	4.2	1.2	4.8	37.9	-	-
TROPICAL AFRICA	3,853	100.0	-	6.6	-	-	89.0	2.4	-	2.0	-
Ivory Coast	3,257	100.0	-	0.3	-	-	97.3	-	-	2.3	-
Kenya	46	100.0	-	100.0	-	-	-	-	-	-	-
Others	549	100.0	-	35.7	-	-	47.4	16.9	-	-	-
NORTH AFRICA	6,461	100.0	-	50.1	0.1	-	3.1	46.7	-	-	-
Egypt	45	100.0	-	100.0	-	-	-	-	-	-	-
Morocco	270	100.0	-	28.1	-	-	71.5	-	-	-	-
Tunisia	20	100.0	-	-	45.0	-	45.0	-	-	-	-
Others	6,125	100.0	-	50.8	-	-	-	49.2	-	-	-
WEST ASIA	39,111	100.0	0.1	12.9	3.8	0.4	0.4	82.4	-	-	-
Cyprus	910	100.0	-	8.5	-	-	4.4	87.1	-	-	-
Lebanon	101	100.0	-	37.6	-	-	-	63.4	-	-	-
Turkey	21,810	100.0	-	17.6	-	-	0.5	81.8	-	-	-
Others	16,290	100.0	0.2	6.6	9.1	1.1	-	83.1	-	-	-
SOUTH ASIA	1,443	100.0	46.2	18.0	0.7	-	-	35.1	-	-	-
India	1,315	100.0	48.7	18.6	0.8	-	-	31.9	-	-	-
Pakistan	97	100.0	5.2	14.4	-	-	-	80.4	-	-	-
Others	31	100.0	67.7	3.2	-	-	-	29.0	-	-	-
EAST ASIA (MFG)	231,028	100.0	8.2	2.4	15.0	2.2	0.9	65.5	0.5	5.3	-
Hong Kong	34,767	100.0	14.9	3.1	32.0	1.2	1.5	16.0	1.0	30.2	-
Korea Republic	82,551	100.0	13.9	3.5	26.9	1.2	0.1	53.5	0.9	-	-
Philippines	7,670	100.0	17.1	4.0	5.3	-	-	73.2	0.4	-	-
Singapore	97,865	100.0	0.7	0.7	0.6	3.7	1.5	91.3	-	1.6	-
Thailand	8,175	100.0	2.3	8.6	6.2	1.8	-	80.2	-	1.0	-
SOUTHEAST ASIA	11,084	100.0	23.4	1.5	0.2	1.6	-	73.0	-	-	0.3
Indonesia	312	100.0	1.6	1.0	7.1	37.8	-	52.2	-	-	-
Malaysia	10,280	100.0	25.2	1.4	-	0.6	-	72.8	-	-	-
Others	493	100.0	-	5.3	-	-	-	88.6	-	-	5.9
ASIAN CPE	30,106	100.0	6.5	18.2	5.4	0.1	1.3	68.4	0.1	-	-
China	28,714	100.0	6.8	19.0	5.7	0.1	1.3	67.0	0.1	-	-
Others	1,392	100.0	-	0.2	-	-	-	97.9	1.9	-	-
NES	780	100.0	-	91.0	-	-	9.1	-	-	-	-

Table D.05.1. Exports of carbon black in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	531,148	100.0	4.9	58.0	1.4	2.8	5.2	13.7	7.4	5.6	1.0
DEVELOPED MARKET	500,095	100.0	4.9	60.0	1.4	3.0	5.4	13.4	4.8	5.9	1.1
North America	72,362	100.0	29.3	28.6	9.0	5.4	4.4	6.6	15.7	0.7	0.3
Europe North	347,137	100.0	1.0	79.2	0.2	0.6	6.0	4.2	2.6	6.3	-
Europe South	7,002	100.0	-	57.2	-	-	10.1	23.1	-	9.1	0.6
Japan	42,873	100.0	0.3	0.4	-	0.9	4.6	70.1	8.9	14.9	-
Others	30,720	100.0	-	-	-	28.5	2.1	52.8	-	-	16.5
EUROPEAN CPE	10,169	100.0	3.5	75.5	3.2	-	-	16.4	1.5	-	-
German Dem. Rep.	7,070	100.0	5.0	85.7	-	-	-	7.2	2.1	-	-
USSR	1,760	100.0	-	81.4	18.6	-	-	-	-	-	-
Others	1,339	100.0	-	13.7	-	-	-	86.3	-	-	-
LATIN AMERICA	14,919	100.0	0.4	0.4	-	-	-	-	99.1	-	-
Colombia	7,165	100.0	-	0.1	-	-	-	-	99.9	-	-
Mexico	609	100.0	9.0	10.2	-	-	-	-	80.8	-	-
Venezuela	3,451	100.0	0.1	-	-	-	-	-	99.9	-	-
Others	3,694	100.0	-	-	-	-	-	0.1	99.9	-	-
TROPICAL AFRICA	104	100.0	27.9	7.7	-	-	56.7	-	-	-	7.7
Ivory Coast	52	100.0	-	-	-	-	84.6	-	-	-	15.4
Zambia	-	-	-	-	-	-	-	-	-	-	-
Others	52	100.0	55.8	15.4	-	-	28.8	-	-	-	-
NORTH AFRICA	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Sudan	-	-	-	-	-	-	-	-	-	-	-
Tunisia	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	108	100.0	-	53.7	15.7	-	-	30.6	-	-	-
Iran	17	100.0	-	-	100.0	-	-	-	-	-	-
Saudi Arabia	10	100.0	-	-	-	-	-	100.0	-	-	-
Turkey	51	100.0	-	100.0	-	-	-	-	-	-	-
Others	29	100.0	-	20.7	-	-	-	79.3	-	-	-
SOUTH ASIA	1,625	100.0	-	-	-	-	17.6	82.4	-	-	-
India	1,625	100.0	-	-	-	-	17.6	82.4	-	-	-
Pakistan	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
EAST ASIA (MFG)	2,144	100.0	-	-	-	-	-	100.0	-	-	-
Hong Kong	17	100.0	-	-	-	-	-	100.0	-	-	-
Korea Republic	2	100.0	-	-	-	-	-	100.0	-	-	-
Philippines	265	100.0	-	-	-	-	-	100.0	-	-	-
Singapore	1,860	100.0	-	-	-	-	-	100.0	-	-	-
Thailand	-	-	-	-	-	-	-	-	-	-	-
SOUTHEAST ASIA	1,858	100.0	49.9	22.5	15.5	0.6	-	11.5	-	-	-
Indonesia	1,818	100.0	51.0	23.0	15.8	0.6	-	9.6	-	-	-
Malaysia	28	100.0	-	-	-	-	-	100.0	-	-	-
Others	12	100.0	-	-	-	-	-	100.0	-	-	-
ASIAN CPE	105	100.0	-	-	-	-	-	39.0	61.0	-	-
China	105	100.0	-	-	-	-	-	39.0	61.0	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
NES	21	100.0	-	-	-	66.7	-	28.6	-	-	-

Table D.05.11. Exports of carbon black in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	871,924	100.0	3.8	63.1	1.8	2.2	4.0	12.5	5.8	5.8	0.9
DEVELOPED MARKET	818,298	100.0	4.0	65.4	1.7	2.3	4.2	11.3	3.9	6.2	1.0
North America	212,447	100.0	11.8	61.0	5.2	2.2	3.1	6.3	8.9	1.5	-
Europe North	493,838	100.0	1.3	78.2	0.6	1.2	4.1	4.2	2.2	8.2	-
Europe South	21,134	100.0	0.3	67.1	-	0.2	24.7	0.2	-	7.5	-
Japan	44,407	100.0	3.3	6.3	-	0.9	5.9	66.4	5.7	11.5	-
Others	46,471	100.0	-	5.5	0.2	16.3	-	61.0	-	-	17.0
EUROPEAN CPE	15,257	100.0	0.5	86.6	1.7	-	2.5	8.7	-	-	-
German Dem. Rep.	7,004	100.0	0.6	94.0	-	-	5.4	-	-	-	-
USSR	6,125	100.0	0.6	95.2	4.2	-	-	-	-	-	-
Others	2,128	100.0	-	37.3	-	-	-	62.7	-	-	-
LATIN AMERICA	20,850	100.0	1.7	5.2	4.7	-	-	-	88.4	-	-
Colombia	694	100.0	-	-	-	-	-	-	100.0	-	-
Mexico	7,104	100.0	4.7	7.6	13.8	-	-	-	73.8	-	-
Venezuela	4,850	100.0	-	-	-	-	-	-	100.0	-	-
Others	8,202	100.0	0.2	6.5	-	-	-	-	93.2	-	-
TROPICAL AFRICA	872	100.0	-	92.8	-	-	0.2	7.0	-	-	-
Ivory Coast	-	-	-	-	-	-	-	-	-	-	-
Zambia	681	100.0	-	100.0	-	-	-	-	-	-	-
Others	191	100.0	-	67.0	-	-	1.0	31.9	-	-	-
NORTH AFRICA	114	100.0	-	100.0	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Sudan	113	100.0	-	100.0	-	-	-	-	-	-	-
Tunisia	1	100.0	-	100.0	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	505	100.0	-	-	0.6	-	-	99.6	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	22	100.0	-	-	-	-	-	100.0	-	-	-
Turkey	480	100.0	-	-	0.6	-	-	99.6	-	-	-
Others	3	100.0	-	-	-	-	-	100.0	-	-	-
SOUTH ASIA	1,273	100.0	0.3	-	18.6	0.1	10.9	70.1	-	-	-
India	1,133	100.0	0.4	-	20.9	0.1	12.3	66.4	-	-	-
Pakistan	-	-	-	-	-	-	-	-	-	-	-
Others	140	100.0	-	-	-	-	-	100.0	-	-	-
EAST ASIA (MFG)	4,541	100.0	-	1.2	0.3	-	-	97.6	0.9	-	-
Hong Kong	3	100.0	-	-	-	-	-	100.0	-	-	-
Korea Republic	28	100.0	-	17.9	35.7	-	-	42.9	-	-	-
Philippines	937	100.0	-	-	-	-	-	100.0	-	-	-
Singapore	1,887	100.0	-	2.7	-	-	-	95.2	2.1	-	-
Thailand	1,686	100.0	-	-	0.1	-	-	99.8	-	0.1	-
SOUTHEAST ASIA	7,495	100.0	-	-	0.3	-	-	99.7	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Malaysia	7,493	100.0	-	-	0.3	-	-	99.7	-	-	-
Others	2	100.0	-	-	-	-	-	100.0	-	-	-
ASIAN CPE	2,699	100.0	-	0.9	1.7	1.5	-	95.9	-	-	-
China	2,699	100.0	-	0.9	1.7	1.5	-	95.9	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
NES	20	100.0	-	-	-	100.0	-	-	-	-	-

Table D.05.111. Exports of carbon black in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	716,488	100.0	7.3	61.3	3.4	3.2	4.8	14.2	3.9	2.0	-
DEVELOPED MARKET	659,815	100.0	6.9	63.5	3.5	3.5	5.1	12.3	3.1	2.1	-
North America	101,652	100.0	39.3	26.3	16.1	5.3	0.7	3.6	8.7	0.1	-
Europe North	465,268	100.0	1.1	80.3	1.3	1.8	5.9	5.3	1.9	2.3	-
Europe South	11,402	100.0	-	65.1	-	-	33.6	0.9	0.4	-	0.1
Japan	43,444	100.0	2.0	0.7	-	4.5	4.5	75.5	5.8	7.0	-
Others	38,048	100.0	-	28.3	0.8	18.6	-	52.3	-	-	-
EUROPEAN CPE	20,355	100.0	0.3	95.7	2.1	-	0.9	1.0	-	-	-
German Dem. Rep.	4,765	100.0	1.1	95.6	-	-	-	3.3	-	-	-
USSR	14,944	100.0	-	97.1	2.9	-	-	-	-	-	-
Others	646	100.0	-	64.1	-	-	29.1	6.8	-	-	-
LATIN AMERICA	14,544	100.0	41.6	2.0	2.5	-	0.9	-	53.1	-	-
Colombia	5,770	100.0	2.3	-	-	-	-	-	97.7	-	-
Mexico	6,272	100.0	94.3	-	5.7	-	-	-	-	-	-
Venezuela	1,759	100.0	-	5.3	-	-	-	-	94.7	-	-
Others	744	100.0	-	25.7	-	-	17.1	-	57.3	-	-
TROPICAL AFRICA	180	100.0	-	96.7	-	-	3.3	-	-	-	-
Ivory Coast	6	100.0	-	-	-	-	100.0	-	-	-	-
Zambia	94	100.0	-	100.0	-	-	-	-	-	-	-
Others	80	100.0	-	100.0	-	-	-	-	-	-	-
NORTH AFRICA	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Sudan	-	-	-	-	-	-	-	-	-	-	-
Tunisia	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	681	100.0	-	-	-	-	-	100.0	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
Turkey	681	100.0	-	-	-	-	-	100.0	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
SOUTH ASIA	351	100.0	-	-	-	-	-	100.0	-	-	-
India	31	100.0	-	-	-	-	-	100.0	-	-	-
Pakistan	321	100.0	-	-	-	-	-	100.0	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
EAST ASIA (MFG)	6,812	100.0	0.4	0.5	7.7	-	1.2	90.1	-	0.2	-
Hong Kong	96	100.0	-	-	-	-	-	100.0	-	-	-
Korea Republic	1,745	100.0	-	-	29.3	-	-	70.7	-	-	-
Philippines	105	100.0	-	-	-	-	-	100.0	-	-	-
Singapore	2,656	100.0	1.0	1.2	0.4	-	2.2	95.3	-	-	-
Thailand	2,209	100.0	-	-	-	-	1.2	98.2	-	0.6	-
SOUTHEAST ASIA	6,632	100.0	-	0.7	-	-	-	99.3	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Malaysia	6,632	100.0	-	0.7	-	-	-	99.3	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
ASIAN CPE	6,973	100.0	-	0.2	5.8	0.3	-	93.7	-	-	-
China	6,547	100.0	-	0.2	6.2	0.3	-	93.3	-	-	-
Others	425	100.0	-	-	-	-	-	100.0	-	-	-
NES	145	100.0	-	15.2	-	-	84.1	-	-	-	-

Table D.06.1. Exports of surfactants in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	943,500	100.0	5.7	55.5	1.9	2.3	6.8	12.2	7.1	8.3	0.3
DEVELOPED MARKET	883,688	100.0	5.8	59.0	1.9	2.4	6.9	9.9	7.2	6.7	0.3
North America	134,100	100.0	29.7	22.0	8.8	4.6	1.5	9.6	22.7	0.8	0.4
Europe North	688,994	100.0	1.5	70.6	0.7	1.8	7.3	6.5	4.5	7.0	-
Europe South	13,713	100.0	0.1	27.7	-	0.6	58.1	6.6	2.4	4.3	0.3
Japan	41,563	100.0	2.4	2.7	-	3.3	0.7	65.0	3.5	21.2	1.2
Others	5,318	100.0	-	2.7	0.3	22.5	2.6	43.0	0.1	-	28.8
EUROPEAN CPE	2,635	100.0	-	72.5	-	-	19.5	7.9	-	-	-
German Dem. Rep.	1,077	100.0	-	69.8	-	-	15.6	14.6	-	-	-
USSR	61	100.0	-	18.0	-	-	68.9	14.8	-	-	-
Others	1,497	100.0	-	76.7	-	-	20.3	2.9	0.1	-	-
LATIN AMERICA	6,890	100.0	43.9	1.1	-	0.3	-	-	54.6	-	-
Brazil	844	100.0	0.1	1.1	-	1.9	0.2	-	96.4	-	-
Mexico	2,318	100.0	84.8	0.3	-	-	-	-	14.9	-	-
Trinidad and Tbg	1,321	100.0	-	0.1	-	-	0.1	-	99.9	-	-
Others	2,406	100.0	44.1	2.4	0.1	0.1	-	-	53.4	-	-
TROPICAL AFRICA	1,029	100.0	0.1	1.9	-	-	91.6	-	-	-	6.3
Ivory Coast	184	100.0	-	0.5	-	-	74.5	-	-	-	25.0
Kenya	307	100.0	-	-	-	-	94.1	-	-	-	5.9
Others	538	100.0	0.2	3.7	-	-	95.9	-	-	-	0.2
NORTH AFRICA	558	100.0	-	3.4	-	-	92.1	4.5	-	-	-
Egypt	28	100.0	-	-	-	-	14.3	89.3	-	-	-
Libyan Arab Jm	-	-	-	-	-	-	-	-	-	-	-
Morocco	529	100.0	-	3.6	-	-	96.6	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	27,602	100.0	-	0.2	-	-	0.2	43.0	-	56.6	-
Lebanon	3,803	100.0	-	-	-	-	1.1	98.9	-	-	-
Turkey	73	100.0	-	38.4	-	-	-	60.3	-	-	-
United Arab Em.	32	100.0	-	-	-	-	-	100.0	-	-	-
Others	23,694	100.0	-	0.1	-	-	0.1	33.8	-	65.9	-
SOUTH ASIA	4,241	100.0	-	0.4	-	-	1.3	5.2	-	93.0	-
India	4,203	100.0	-	-	-	-	1.3	4.8	-	93.9	-
Pakistan	21	100.0	-	9.5	-	-	-	90.5	-	-	-
Others	16	100.0	-	93.7	-	-	-	6.2	-	-	-
EAST ASIA (MFG)	9,479	100.0	0.1	0.1	9.1	0.9	1.0	88.3	-	0.4	0.2
Hong Kong	1,422	100.0	0.8	0.2	58.0	1.5	6.2	33.2	-	-	-
Korea Republic	559	100.0	-	-	4.3	7.5	-	88.0	-	-	0.4
Philippines	230	100.0	-	-	0.9	-	-	98.7	-	-	0.2
Singapore	6,835	100.0	-	-	0.1	0.3	0.1	98.8	-	0.5	-
Thailand	433	100.0	-	0.7	-	-	-	98.6	-	0.7	-
SOUTHEAST ASIA	2,703	100.0	-	0.1	-	0.6	-	98.9	-	-	0.4
Indonesia	16	100.0	-	-	-	100.0	-	-	-	-	-
Malaysia	2,219	100.0	-	0.2	-	-	-	99.8	-	-	-
Others	468	100.0	-	-	-	-	-	97.6	-	-	2.4
ASIAN CPE	3,737	100.0	-	-	-	-	3.4	96.6	-	-	-
China	3,737	100.0	-	-	-	-	3.4	96.6	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
NES	938	100.0	0.5	4.4	-	12.5	81.1	1.4	0.1	-	-

Table D.06.11. Exports of surfactants in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	1,613,167	100.0	3.4	53.7	1.1	2.7	8.3	13.3	5.7	11.6	0.3
DEVELOPED MARKET	1,503,778	100.0	3.5	57.3	1.1	2.9	8.5	10.5	4.9	11.1	0.3
North America	152,430	100.0	22.2	22.2	5.1	11.1	2.3	13.7	23.0	0.2	0.1
Europe North	1,212,924	100.0	1.1	66.3	0.7	1.9	7.9	7.3	3.0	11.9	-
Europe South	67,616	100.0	0.1	32.6	-	0.5	40.6	9.4	1.0	15.7	-
Japan	59,794	100.0	9.1	3.9	-	2.2	0.4	62.0	3.5	19.0	-
Others	11,014	100.0	0.1	0.7	0.3	17.3	1.2	41.5	0.4	-	38.4
EUROPEAN CPE	8,255	100.0	-	37.5	-	-	1.6	2.6	11.2	47.2	-
German Dem. Rep.	1,668	100.0	-	87.2	-	-	4.3	5.7	-	2.8	-
USSR	1,728	100.0	-	2.0	-	-	1.6	-	-	96.5	-
Others	4,859	100.0	-	33.1	-	-	0.6	2.4	19.0	44.9	-
LATIN AMERICA	24,025	100.0	8.3	0.9	-	0.2	16.7	1.6	72.2	-	-
Brazil	7,043	100.0	-	0.8	-	-	49.2	5.3	44.7	-	-
Mexico	1,426	100.0	85.1	0.1	-	0.4	-	0.8	13.6	-	-
Trinidad and Tbg	2,625	100.0	-	-	-	-	-	-	100.0	-	-
Others	12,930	100.0	6.1	1.3	-	0.4	4.2	-	88.0	-	0.1
TROPICAL AFRICA	1,428	100.0	-	0.6	-	-	97.6	1.8	-	-	-
Ivory Coast	531	100.0	-	0.8	-	-	99.2	-	-	-	-
Kenya	420	100.0	-	-	-	-	94.0	6.0	-	-	-
Others	477	100.0	-	1.0	-	-	98.7	0.2	-	-	-
NORTH AFRICA	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Libyan Arab Jm	-	-	-	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	23,572	100.0	-	1.0	-	-	0.3	95.9	-	2.9	-
Lebanon	8,937	100.0	-	-	-	-	0.1	99.9	-	-	-
Turkey	872	100.0	-	20.5	-	-	-	1.5	-	78.0	-
United Arab Em.	2,500	100.0	-	-	-	-	-	100.0	-	-	-
Others	11,263	100.0	-	0.4	-	-	0.5	99.1	-	-	-
SOUTH ASIA	16,008	100.0	-	-	-	-	1.7	6.8	-	91.5	-
India	15,562	100.0	-	-	-	-	1.7	4.2	-	94.1	-
Pakistan	348	100.0	-	-	-	-	-	100.0	-	-	-
Others	98	100.0	-	-	-	-	-	100.0	-	-	-
EAST ASIA (MFG)	21,868	100.0	0.1	0.2	11.2	1.3	0.7	84.0	-	2.4	-
Hong Kong	3,371	100.0	0.1	1.1	47.9	0.5	-	50.1	-	0.2	-
Korea Republic	2,491	100.0	0.1	-	27.9	-	0.6	71.4	-	-	-
Philippines	307	100.0	-	0.7	2.6	0.3	34.9	61.6	-	-	-
Singapore	15,247	100.0	0.1	0.1	0.9	1.8	0.3	95.7	-	1.1	-
Thailand	453	100.0	-	-	0.4	-	-	23.6	-	75.9	-
SOUTHEAST ASIA	2,945	100.0	0.1	-	-	0.6	-	99.0	-	-	0.3
Indonesia	10	100.0	-	-	-	60.0	-	40.0	-	-	-
Malaysia	2,874	100.0	-	-	-	0.3	-	99.7	-	-	-
Others	61	100.0	3.3	-	-	1.6	-	78.7	-	-	16.4
ASIAN CPE	10,825	100.0	-	0.1	-	-	0.2	99.6	-	-	-
China	10,811	100.0	-	0.1	-	-	0.2	99.6	-	-	-
Others	14	100.0	-	-	-	-	-	100.0	-	-	-
NES	463	100.0	-	1.9	-	6.3	29.8	61.6	-	0.4	-

Table D.06.111. Exports of surfactants in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	1,823,725	100.0	3.6	59.0	1.7	2.9	6.7	13.2	4.7	8.2	-
DEVELOPED MARKET	1,708,310	100.0	3.5	61.2	1.4	3.0	6.4	11.5	4.3	8.7	0.1
North America	170,890	100.0	20.2	24.6	8.7	9.8	1.2	15.3	19.8	0.1	0.3
Europe North	1,361,581	100.0	1.2	71.3	0.6	2.1	6.0	8.1	2.6	8.1	-
Europe South	66,424	100.0	0.1	43.3	0.1	0.9	39.1	6.0	1.2	9.1	0.2
Japan	101,527	100.0	8.3	3.6	-	1.5	0.3	51.6	2.9	31.8	-
Others	7,888	100.0	0.4	0.5	0.3	45.0	-	53.4	-	-	0.4
EUROPEAN CPE	30,081	100.0	0.2	98.6	1.1	-	-	0.2	-	-	-
German Dem. Rep.	4,823	100.0	0.9	91.7	7.1	-	-	0.4	-	-	-
USSR	23,120	100.0	-	100.0	-	-	-	-	-	-	-
Others	2,138	100.0	0.1	98.5	-	-	-	1.4	-	-	-
LATIN AMERICA	22,569	100.0	30.5	0.7	-	3.2	10.2	0.3	55.0	-	-
Brazil	6,568	100.0	24.2	0.8	-	10.9	0.1	0.6	63.4	-	-
Mexico	4,992	100.0	98.2	0.6	-	-	-	0.1	1.0	-	-
Trinidad and Tbg	4,058	100.0	0.3	-	-	-	-	-	99.7	-	-
Others	6,951	100.0	5.6	1.3	-	-	33.0	0.3	59.8	-	-
TROPICAL AFRICA	616	100.0	0.3	1.8	-	-	97.9	-	0.2	-	-
Ivory Coast	590	100.0	-	0.2	-	-	99.7	-	0.2	-	-
Kenya	1	100.0	-	100.0	-	-	-	-	-	-	-
Others	24	100.0	8.3	33.3	-	-	62.5	-	-	-	-
NORTH AFRICA	2	100.0	-	100.0	-	-	-	-	-	-	-
Egypt	2	100.0	-	100.0	-	-	-	-	-	-	-
Libyan Arab Jm	1	100.0	-	100.0	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
WEST ASIA	8,894	100.0	-	1.8	-	-	28.6	69.2	-	0.4	-
Lebanon	-	-	-	-	-	-	-	-	-	-	-
Turkey	4,398	100.0	-	1.9	-	-	50.8	46.5	-	0.9	-
United Arab Em.	2,849	100.0	-	-	-	-	-	100.0	-	-	-
Others	1,647	100.0	0.1	4.3	-	-	18.8	76.9	-	-	-
SOUTH ASIA	1,305	100.0	0.9	-	-	-	84.5	14.6	-	-	-
India	1,238	100.0	1.0	-	-	-	89.1	9.9	-	-	-
Pakistan	34	100.0	-	-	-	-	-	100.0	-	-	-
Others	33	100.0	-	-	-	-	-	100.0	-	-	-
EAST ASIA (MFG)	39,061	100.0	0.1	0.2	18.6	2.2	1.7	76.7	-	0.5	-
Hong Kong	8,895	100.0	0.5	0.5	68.2	6.5	-	23.0	-	1.3	-
Korea Republic	1,149	100.0	0.1	0.2	16.4	-	55.4	27.9	-	-	-
Philippines	750	100.0	-	-	88.9	-	-	11.1	-	-	-
Singapore	28,109	100.0	-	0.1	1.2	1.0	-	97.4	-	0.2	-
Thailand	158	100.0	-	0.6	-	-	-	83.5	-	14.6	-
SOUTHEAST ASIA	1,899	100.0	-	0.5	-	0.2	0.2	98.9	-	-	0.3
Indonesia	159	100.0	-	-	-	-	1.9	97.5	-	-	-
Malaysia	1,724	100.0	-	0.5	-	-	-	99.5	-	-	-
Others	16	100.0	-	-	-	18.7	-	43.7	-	-	31.2
ASIAN CPE	10,938	100.0	0.1	-	0.1	-	49.0	50.8	-	-	-
China	5,578	100.0	0.2	-	0.2	-	-	99.6	-	-	-
Others	5,360	100.0	-	-	-	-	100.0	-	-	-	-
NES	49	100.0	-	93.9	-	-	8.2	-	-	-	-

Section E

Major sources of imported materials by principal importing country and region, 1975, 1980 and 1983

This section shows the international sources of certain major raw materials and intermediate products used in the production of petrochemicals.

The data source is the UNSO Commodity Trade Statistics. Where a given country does not report on its external trade, its trading partners' reports have been used to estimate its exports and imports. Since these trade statistics are far from complete, particularly for the trade among the centrally planned economies (CPE), the use of partner data does not always close the gap. Therefore, the figures for these countries do not generally reflect CPE internal trade.

The appropriate export price indices from the UN Monthly Bulletin of Statistics were used to express the reported current value figures in constant 1975 US dollars.

Table E.01.1. Imports of crude petroleum in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	130,394,904	100.0	2.1	0.8	-	-	15.4	73.6	5.7	1.8	0.6
DEVELOPED MARKET	91,695,499	100.0	3.0	1.1	-	-	19.1	68.4	5.3	2.4	0.7
North America	21,604,915	100.0	12.9	0.4	-	-	28.4	39.1	19.3	-	-
Europe North	43,810,844	100.0	-	2.0	-	-	22.7	71.4	1.4	2.5	-
Europe South	6,469,452	100.0	0.1	0.8	-	-	11.7	70.6	1.9	5.3	9.7
Japan	19,096,065	100.0	-	-	-	-	3.4	92.7	-	3.9	-
Others	714,224	100.0	-	-	-	-	-	100.0	-	-	-
EUROPEAN CPE	406,092	100.0	-	-	-	-	56.3	42.9	0.9	-	-
German Dem. Rep.	50,007	100.0	-	-	-	-	59.4	33.7	6.9	-	-
Romania	220,368	100.0	-	-	-	-	51.1	48.9	-	-	-
Others	135,718	100.0	-	-	-	-	63.5	36.5	-	-	-
LATIN AMERICA	10,100,018	100.0	-	-	-	0.1	20.2	54.3	25.3	0.2	-
Bahamas	2,380,074	100.0	-	-	-	0.4	39.2	56.7	3.8	-	-
Brazil	3,106,619	100.0	-	-	-	-	13.6	82.6	3.3	0.5	-
Neth. Antilles	1,938,779	100.0	-	-	-	-	14.1	24.7	61.2	-	-
Others	2,674,547	100.0	-	0.2	-	-	15.3	40.7	43.8	-	-
TROPICAL AFRICA	898,446	100.0	-	-	-	-	25.9	72.7	0.7	0.8	-
Ivory Coast	146,034	100.0	-	-	-	-	54.6	45.4	-	-	-
Kenya	209,493	100.0	-	-	-	-	-	100.0	-	-	-
Others	542,919	100.0	-	-	-	-	28.2	69.5	1.1	1.3	-
NORTH AFRICA	406,955	100.0	-	-	-	-	0.8	84.1	-	15.2	-
Egypt	183,363	100.0	-	-	-	-	-	100.0	-	-	-
Morocco	221,289	100.0	-	-	-	-	1.4	70.7	-	27.9	-
Sudan	2,301	100.0	-	-	-	-	-	100.0	-	-	-
Others	2	100.0	-	100.0	-	-	-	-	-	-	-
WEST ASIA	1,580,144	100.0	-	0.1	-	-	5.3	94.5	-	-	-
Bahrain	626,411	100.0	-	-	-	-	-	100.0	-	-	-
Turkey	726,686	100.0	-	0.2	-	-	11.5	88.2	-	0.1	-
Yemen, Dem. Rep.	23,530	100.0	-	-	-	-	-	100.0	-	-	-
Others	203,516	100.0	-	-	-	-	0.3	99.6	-	-	-
SOUTH ASIA	633,938	100.0	-	-	-	-	1.2	98.8	-	-	-
India	346,320	100.0	-	-	-	-	2.3	97.7	-	-	-
Pakistan	161,958	100.0	-	-	-	-	-	100.0	-	-	-
Others	125,659	100.0	-	-	-	-	-	100.0	-	-	-
EAST ASIA (MFG)	4,460,707	100.0	-	-	-	-	0.4	96.7	-	0.7	2.2
Hong Kong	-	-	-	-	-	-	-	-	-	-	-
Korea Republic	1,267,593	100.0	-	-	-	-	-	92.4	-	-	7.6
Philippines	751,301	100.0	-	-	-	-	-	95.7	-	4.3	-
Singapore	1,908,278	100.0	-	-	-	-	0.4	99.6	-	-	-
Thailand	533,535	100.0	-	-	-	-	2.2	97.8	-	-	-
SOUTHEAST ASIA	310,507	100.0	0.3	-	0.1	-	1.1	98.5	-	-	-
Indonesia	6,946	100.0	13.0	0.1	5.3	-	-	81.2	-	0.3	-
Malaysia	228,959	100.0	-	-	-	-	-	100.0	-	-	-
Others	74,602	100.0	-	-	-	-	4.4	95.6	-	-	-
ASIAN CPE	30,652	100.0	-	-	-	-	92.3	7.7	-	-	-
China	28,293	100.0	-	-	-	-	100.0	-	-	-	-
Others	2,359	100.0	-	-	-	-	-	100.0	-	-	-
NES	19,871,946	100.0	-	-	-	-	-	100.0	-	-	-

Table E.01.11. Imports of crude petroleum in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	114,742,972	100.0	1.2	5.3	-	-	21.1	60.4	7.8	3.3	0.8
DEVELOPED MARKET	95,446,767	100.0	1.4	6.3	-	-	23.4	58.0	6.5	3.7	0.7
North America	26,228,957	100.0	5.2	6.0	-	-	37.3	34.4	17.0	-	-
Europe North	41,912,973	100.0	-	10.5	-	-	25.3	57.3	1.8	5.1	-
Europe South	7,509,990	100.0	-	0.1	-	-	21.7	51.7	9.0	8.6	8.9
Japan	18,950,137	100.0	-	-	-	-	1.9	92.7	1.5	3.9	-
Others	844,710	100.0	-	-	-	-	-	100.0	-	-	-
EUROPEAN CPE	401,913	100.0	-	-	-	-	80.6	18.6	0.8	-	-
German Dem. Rep.	41,168	100.0	-	-	-	-	81.2	18.8	-	-	-
Romania	288,968	100.0	-	-	-	-	76.9	23.1	-	-	-
Others	71,777	100.0	-	-	-	-	95.3	-	4.7	-	-
LATIN AMERICA	7,714,070	100.0	0.2	1.1	-	-	12.6	49.4	35.4	1.2	-
Bahamas	573,071	100.0	-	10.0	-	-	74.4	12.5	3.0	-	-
Brazil	3,628,916	100.0	-	-	-	-	7.7	82.7	7.0	2.6	-
Neth. Antilles	1,689,600	100.0	-	0.7	-	-	2.2	0.7	96.3	-	-
Others	1,822,483	100.0	0.8	0.9	-	-	12.6	39.8	45.9	-	-
TROPICAL AFRICA	657,423	100.0	-	2.2	-	-	16.5	66.4	9.6	5.3	-
Ivory Coast	106,962	100.0	-	-	-	-	19.5	25.5	55.0	-	-
Kenya	275,844	100.0	-	-	-	-	-	100.0	-	-	-
Others	274,616	100.0	-	5.3	-	0.1	31.8	48.6	1.6	12.7	-
NORTH AFRICA	561,278	100.0	-	0.7	-	-	0.6	91.0	-	7.7	-
Egypt	9,231	100.0	-	0.1	-	-	-	99.9	-	-	-
Morocco	336,254	100.0	-	-	-	-	-	87.1	-	12.9	-
Sudan	95,669	100.0	-	-	-	-	-	100.0	-	-	-
Others	120,124	100.0	-	3.4	-	-	2.8	93.8	-	-	-
WEST ASIA	2,356,530	100.0	-	-	-	-	18.4	80.5	-	-	1.1
Bahrain	790,470	100.0	-	-	-	-	-	100.0	-	-	-
Turkey	1,006,265	100.0	-	-	-	-	26.5	71.0	-	-	2.5
Yemen, Dem. Rep.	189,703	100.0	-	-	-	-	79.3	20.7	-	-	-
Others	390,093	100.0	-	-	-	-	8.5	91.5	-	-	-
SOUTH ASIA	856,525	100.0	-	-	-	-	-	100.0	-	-	-
India	123,092	100.0	-	-	-	-	-	100.0	-	-	-
Pakistan	206,349	100.0	-	-	-	-	-	100.0	-	-	-
Others	227,084	100.0	-	-	-	-	-	100.0	-	-	-
EAST ASIA (MFG)	6,144,034	100.0	-	-	0.2	-	0.3	93.6	0.4	1.9	3.6
Hong Kong	2,100	100.0	-	-	-	-	-	100.0	-	-	-
Korea Republic	2,088,546	100.0	-	-	0.7	-	-	87.8	1.0	-	10.6
Philippines	716,562	100.0	-	-	-	-	-	91.1	-	8.9	-
Singapore	2,616,493	100.0	-	-	-	-	0.4	99.4	0.1	0.1	-
Thailand	720,333	100.0	-	-	-	-	1.1	92.1	-	6.8	-
SOUTHEAST ASIA	684,067	100.0	-	-	-	-	-	100.0	-	-	-
Indonesia	357,579	100.0	-	-	-	-	-	100.0	-	-	-
Malaysia	325,760	100.0	-	-	-	-	-	100.0	-	-	-
Others	727	100.0	-	1.0	-	-	-	99.0	-	-	-
ASIAN CPE	30,645	100.0	-	-	-	-	-	100.0	-	-	-
China	30,645	100.0	-	-	-	-	-	100.0	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
NES	189,719	100.0	-	-	-	-	7.2	92.8	-	-	-

Table E.01.111. Imports of crude petroleum in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	71,652,019	100.0	1.6	11.3	-	-	19.2	50.3	11.0	5.7	0.8
DEVELOPED MARKET	64,700,583	100.0	1.8	12.5	-	-	20.5	46.2	11.9	6.2	0.9
North America	15,411,447	100.0	7.5	12.5	-	-	21.7	27.4	30.7	0.2	-
Europe North	27,759,480	100.0	-	21.5	-	-	30.7	32.3	5.5	10.1	-
Europe South	6,347,983	100.0	-	2.9	-	-	18.7	50.2	12.9	6.5	8.8
Japan	14,966,874	100.0	0.1	-	-	-	1.3	89.0	4.3	5.3	-
Others	214,799	100.0	-	-	-	0.8	-	99.2	-	-	-
EUROPEAN CPE	-	-	-	-	-	-	-	-	-	-	-
German Dem. Rep.	-	-	-	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
LATIN AMERICA	660,213	100.0	0.1	5.5	-	-	11.9	57.1	25.4	-	-
Bahamas	52,724	100.0	-	-	-	-	-	100.0	-	-	-
Brazil	52,428	100.0	-	-	-	-	100.0	-	-	-	-
Neth. Antilles	53,365	100.0	-	68.0	-	-	32.0	-	-	-	-
Others	501,696	100.0	0.1	-	-	-	1.8	64.6	33.4	-	-
TROPICAL AFRICA	113,274	100.0	-	-	-	-	70.4	10.2	13.0	-	6.4
Ivory Coast	90,874	100.0	-	-	-	-	63.1	12.7	16.2	-	8.0
Kenya	-	-	-	-	-	-	-	-	-	-	-
Others	22,400	100.0	-	-	-	-	100.0	-	-	-	-
NORTH AFRICA	30,313	100.0	-	47.3	-	-	-	52.7	-	-	-
Egypt	15,976	100.0	-	-	-	-	-	100.0	-	-	-
Morocco	-	-	-	-	-	-	-	-	-	-	-
Sudan	-	-		-	-	-	-	-	-	-	-
Others	14,338	100.0	-	100.0	-	-	-	-	-	-	-
WEST ASIA	1,284,182	100.0	-	-	-	-	27.2	72.5	-	0.2	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Turkey	1,223,484	100.0	-	-	-	-	26.3	73.7	-	-	-
Yemen, Dem. Rep.	18,707	100.0	-	-	-	-	100.0	-	-	-	-
Others	41,991	100.0	-	-	-	-	22.2	71.3	-	6.5	-
SOUTH ASIA	371,023	100.0	-	-	-	-	-	100.0	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Pakistan	371,019	100.0	-	-	-	-	-	100.0	-	-	-
Others	4	100.0	-	-	-	-	-	100.0	-	-	-
EAST ASIA (MFG)	4,155,183	100.0	-	-	-	-	0.3	99.1	-	0.6	-
Hong Kong	-	-	-	-	-	-	-	-	-	-	-
Korea Republic	98,791	100.0	-	-	-	-	-	100.0	-	-	-
Philippines	80,536	100.0	-	-	-	-	-	100.0	-	-	-
Singapore	3,319,991	100.0	-	-	-	-	0.4	99.2	-	0.4	-
Thailand	655,864	100.0	-	-	-	-	-	98.2	-	1.8	-
SOUTHEAST ASIA	337,248	100.0	-	-	-	-	-	100.0	-	-	-
Indonesia	337,248	100.0	-	-	-	-	-	100.0	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
ASIAN CPE	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
NES	-	-	-	-	-	-	-	-	-	-	-

Table E.02.1. Imports of petroleum products in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	29,222,654	100.0	5.3	37.8	0.6	0.9	3.0	19.5	22.0	10.7	0.1
DEVELOPED MARKET	22,581,894	100.0	5.1	45.2	0.3	0.7	2.5	11.3	22.0	12.7	0.1
North America	5,920,174	100.0	7.5	6.5	0.1	0.6	3.7	7.3	71.8	2.5	-
Europe North	14,207,338	100.0	3.4	66.7	0.5	0.1	2.2	4.6	4.6	17.8	0.1
Europe South	545,847	100.0	7.0	50.1	0.9	0.1	1.9	13.3	6.4	20.1	0.2
Japan	1,375,149	100.0	10.7	1.6	-	2.1	2.0	76.2	1.7	5.6	-
Others	533,387	100.0	6.6	8.1	0.5	17.0	0.2	64.3	2.6	0.1	0.5
EUROPEAN CPE	188,251	100.0	2.6	50.7	2.1	-	0.8	13.2	0.5	29.5	0.6
Czechoslovakia	60,437	100.0	0.3	11.6	-	-	-	1.6	-	84.5	2.0
USSR	54,937	100.0	8.0	57.0	6.2	-	2.1	26.2	0.5	-	-
Others	72,877	100.0	0.4	78.3	0.7	-	0.4	13.0	1.0	6.1	-
LATIN AMERICA	1,688,579	100.0	12.6	4.3	0.5	0.1	0.3	9.7	71.4	0.6	0.5
Colombia	19,572	100.0	12.8	3.1	-	-	-	21.0	63.0	-	-
Mexico	167,717	100.0	37.8	5.3	0.2	1.1	-	0.5	54.4	0.8	-
Neth. Antilles	431,404	100.0	0.3	0.1	-	-	0.4	2.3	96.9	-	-
Others	1,069,886	100.0	13.6	5.9	0.7	-	0.3	13.9	63.9	0.9	0.7
TROPICAL AFRICA	893,462	100.0	5.1	27.5	0.1	3.6	21.5	22.8	18.7	0.4	0.3
Nigeria	180,622	100.0	8.4	53.0	-	-	2.9	6.3	29.1	0.1	0.2
Untd. Rep. Camr.	59,220	100.0	0.1	32.4	-	-	52.0	1.2	14.4	-	-
Others	653,620	100.0	4.6	20.1	0.1	5.0	23.8	29.4	16.2	0.6	0.4
NORTH AFRICA	253,942	100.0	1.4	83.6	-	-	2.0	2.6	6.0	4.4	-
Algeria	77,372	100.0	0.4	85.2	-	-	-	1.7	12.5	0.1	-
Libyan Arab Jm	68,456	100.0	0.5	95.1	-	-	2.3	0.3	-	1.7	-
Tunisia	44,874	100.0	0.2	94.9	-	-	4.5	-	-	0.4	-
Others	63,240	100.0	4.5	61.2	-	-	2.1	7.9	8.8	15.4	-
WEST ASIA	480,816	100.0	10.3	31.7	2.0	0.5	1.9	41.3	1.3	11.1	-
Syrian Arab Rep.	67,237	100.0	0.1	44.4	-	-	-	20.1	-	35.4	-
Turkey	72,285	100.0	19.1	39.1	12.7	-	1.5	4.4	3.8	19.4	-
United Arab Em.	138,797	100.0	1.2	16.6	-	-	1.4	80.7	-	-	-
Others	202,497	100.0	16.8	35.1	0.2	1.1	3.0	34.4	1.7	7.7	-
SOUTH ASIA	282,900	100.0	4.9	3.4	1.1	-	-	82.8	-	7.9	-
India	106,849	100.0	9.4	3.6	0.1	-	0.1	86.8	-	-	-
Pakistan	121,221	100.0	1.7	1.1	0.4	-	-	91.7	0.1	4.9	-
Others	54,830	100.0	3.1	7.8	4.2	-	-	55.2	-	29.7	-
EAST ASIA (MFG)	1,195,852	100.0	2.8	2.1	6.3	2.1	2.2	78.0	1.1	5.3	0.1
Hong Kong	413,634	100.0	0.8	0.6	4.5	0.1	0.4	79.9	0.1	13.6	-
Korea Republic	66,514	100.0	10.8	4.1	69.0	-	2.1	11.5	-	-	2.5
Philippines	63,075	100.0	15.2	1.7	6.5	1.4	-	73.9	0.9	0.4	-
Singapore	541,730	100.0	1.1	2.9	0.7	4.4	4.4	84.3	2.1	0.2	-
Thailand	110,900	100.0	6.6	2.5	2.7	-	-	82.2	1.0	5.0	-
SOUTHEAST ASIA	843,682	100.0	2.4	1.3	0.9	4.2	0.6	86.5	0.5	2.0	1.6
Indonesia	212,731	100.0	3.8	1.7	1.7	0.1	1.1	84.8	0.1	6.7	-
Malaysia	154,338	100.0	1.1	2.5	1.0	1.5	1.5	91.9	-	0.4	-
Others	476,613	100.0	2.2	0.7	0.6	6.9	0.1	85.5	0.8	0.4	2.8
ASIAN CPE	27,629	100.0	0.9	6.7	7.5	-	0.1	84.7	0.2	-	-
China	11,082	100.0	1.6	3.7	11.5	-	0.2	82.7	0.4	-	-
Others	16,548	100.0	0.4	8.7	4.8	-	-	86.0	-	-	-
NES	785,646	100.0	1.7	3.4	-	1.3	9.3	78.5	4.4	1.5	-

Table E.02.11. Imports of petroleum products in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	34,825,017	100.0	4.1	35.3	0.3	0.8	4.7	23.6	17.7	12.9	0.7
DEVELOPED MARKET	26,455,105	100.0	3.6	40.6	0.1	0.4	5.1	16.7	19.0	14.3	0.2
North America	5,105,745	100.0	6.5	5.5	0.2	0.2	8.5	8.1	68.7	2.1	0.1
Europe North	17,145,162	100.0	2.4	58.9	-	0.1	5.1	5.9	8.1	19.3	0.1
Europe South	671,548	100.0	7.1	46.2	-	0.4	3.7	5.7	6.6	24.3	5.9
Japan	2,731,910	100.0	4.4	0.4	-	0.2	0.5	85.2	2.4	6.8	0.1
Others	800,740	100.0	4.0	3.9	1.0	9.1	0.3	78.6	1.5	1.1	0.4
EUROPEAN CPE	428,513	100.0	2.4	19.9	1.6	-	-	0.2	0.3	54.0	21.5
Czechoslovakia	26,118	100.0	-	49.2	0.5	-	-	0.6	-	49.6	-
USSR	53,374	100.0	19.4	64.6	12.5	-	0.1	0.9	2.1	0.3	-
Others	349,021	100.0	-	10.9	-	-	-	-	-	62.6	26.4
LATIN AMERICA	1,430,830	100.0	17.1	7.9	0.4	-	1.8	5.3	66.0	1.6	-
Colombia	164,176	100.0	39.3	1.5	0.1	-	-	-	50.5	8.7	-
Mexico	71,044	100.0	84.0	14.3	1.1	-	-	-	0.6	-	-
Neth. Antilles	182,981	100.0	1.9	0.2	-	-	-	-	97.9	-	-
Others	1,012,630	100.0	11.5	9.8	0.5	-	2.5	7.4	67.4	0.8	-
TROPICAL AFRICA	1,094,922	100.0	2.9	51.4	0.1	1.9	14.6	15.1	11.6	1.2	1.2
Nigeria	342,932	100.0	1.8	92.4	-	-	4.3	-	1.4	-	-
Untd. Rep. Camr.	69,019	100.0	1.7	50.9	-	-	16.9	-	30.4	-	-
Others	682,971	100.0	3.6	30.9	0.1	3.1	19.5	24.2	14.8	1.8	2.0
NORTH AFRICA	289,749	100.0	1.1	79.5	0.8	-	0.3	14.2	0.6	3.6	-
Algeria	56,138	100.0	1.6	91.0	2.8	-	-	-	-	4.6	-
Libyan Arab Jm	17,173	100.0	1.4	93.6	-	-	0.3	0.1	-	4.6	-
Tunisia	139,053	100.0	0.1	97.4	-	-	-	0.8	-	1.6	-
Others	77,385	100.0	2.4	35.7	1.0	-	0.9	51.7	2.1	6.2	-
WEST ASIA	1,136,210	100.0	5.4	25.2	0.3	0.7	2.2	51.7	1.2	13.3	0.2
Syrian Arab Rep.	78,113	100.0	0.2	92.6	-	-	-	7.2	-	-	-
Turkey	300,551	100.0	6.2	29.3	-	-	4.1	11.1	4.7	44.7	-
United Arab Em.	348,240	100.0	1.4	8.7	-	0.4	-	89.5	-	-	-
Others	409,306	100.0	9.1	23.3	0.7	1.5	3.0	57.8	-	4.0	0.5
SOUTH ASIA	615,377	100.0	1.9	12.6	0.7	1.1	-	79.5	1.6	2.6	-
India	306,495	100.0	3.5	22.4	1.2	2.1	-	67.7	3.1	-	-
Pakistan	215,712	100.0	0.1	1.6	0.1	-	-	97.1	-	1.0	-
Others	93,170	100.0	0.4	5.7	0.5	0.3	0.1	77.9	0.3	14.7	-
EAST ASIA (MFG)	1,611,922	100.0	4.6	3.7	2.4	2.9	3.0	62.5	1.5	16.0	3.3
Hong Kong	458,014	100.0	0.7	0.2	1.3	2.0	0.5	56.7	-	38.5	-
Korea Republic	193,783	100.0	5.0	3.6	14.2	-	3.5	45.9	-	-	27.7
Philippines	149,338	100.0	2.2	2.7	0.5	0.1	-	88.0	0.9	5.5	-
Singapore	458,141	100.0	11.1	5.7	0.8	5.8	7.5	60.5	2.7	5.9	-
Thailand	352,646	100.0	2.0	6.3	0.3	3.0	1.6	70.8	2.9	13.1	-
SOUTHEAST ASIA	886,131	100.0	3.7	1.0	0.7	5.8	0.3	85.4	0.6	0.9	1.6
Indonesia	390,446	100.0	2.7	0.9	1.0	0.5	0.7	93.0	1.0	0.2	-
Malaysia	287,469	100.0	0.6	0.8	0.5	0.5	-	96.9	0.2	0.5	-
Others	208,215	100.0	9.9	1.6	0.4	23.1	-	55.1	0.3	2.8	6.8
ASIAN CPE	37,984	100.0	1.8	20.4	11.3	-	-	66.5	-	-	-
China	16,132	100.0	4.3	17.4	10.5	-	-	67.9	-	-	-
Others	21,852	100.0	-	22.6	11.9	-	-	65.4	-	-	-
NES	838,274	100.0	0.1	15.5	-	4.0	1.4	75.8	2.3	0.9	-

Table E.02.111. Imports of petroleum products in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	35,987,066	100.0	6.6	35.1	0.3	0.6	6.2	21.2	15.2	14.7	0.1
DEVELOPED MARKET	28,761,938	100.0	5.8	39.1	0.1	0.5	7.3	13.2	16.9	17.1	0.1
North America	7,130,182	100.0	9.8	11.9	0.1	0.3	11.8	5.8	55.6	4.5	0.2
Europe North	17,573,371	100.0	2.6	56.6	-	0.1	6.0	7.1	4.4	23.2	0.1
Europe South	1,058,998	100.0	10.5	36.8	0.2	0.2	19.3	3.7	4.4	23.7	1.2
Japan	2,539,491	100.0	12.0	0.4	-	1.0	-	73.6	2.1	10.9	0.1
Others	459,895	100.0	19.1	8.4	1.3	21.3	-	47.4	2.4	0.1	-
EUROPEAN CPE	132,666	100.0	7.2	82.5	9.8	-	-	0.4	-	-	-
Czechoslovakia	10,505	100.0	-	99.4	0.6	-	-	-	-	-	-
USSR	83,096	100.0	11.5	72.3	15.6	-	-	0.6	-	-	-
Others	39,066	100.0	0.1	99.8	0.1	-	0.1	-	-	-	-
LATIN AMERICA	773,462	100.0	38.4	5.8	0.4	-	0.2	-	55.2	-	-
Colombia	112,954	100.0	11.6	0.7	0.3	-	-	-	87.4	-	-
Mexico	75,136	100.0	66.8	9.7	0.5	-	-	-	23.1	-	-
Neth. Antilles	97,878	100.0	64.1	2.6	-	-	-	-	33.3	-	-
Others	487,495	100.0	35.0	7.0	0.5	-	0.3	-	57.2	-	-
TROPICAL AFRICA	644,089	100.0	7.2	48.1	-	0.3	15.0	8.4	20.8	-	-
Nigeria	134,961	100.0	21.9	66.7	-	-	1.9	-	9.4	-	-
Untd. Rep. Camr.	9,851	100.0	21.4	70.9	-	-	7.7	-	-	-	-
Others	499,277	100.0	3.0	42.6	-	0.4	18.7	10.9	24.3	-	-
NORTH AFRICA	468,585	100.0	1.0	96.6	0.2	-	0.1	1.5	0.6	0.1	-
Algeria	50,123	100.0	1.0	91.8	1.4	-	-	-	5.1	0.8	-
Libyan Arab Jm	270,624	100.0	0.1	99.8	-	-	0.1	-	-	-	-
Tunisia	38,708	100.0	0.1	99.8	-	-	0.1	-	-	-	-
Others	109,130	100.0	3.6	89.7	0.1	-	0.2	6.3	-	-	-
WEST ASIA	732,159	100.0	5.7	53.7	0.3	-	0.8	28.6	-	11.0	-
Syrian Arab Rep.	10,422	100.0	1.1	97.6	0.5	-	-	0.7	-	-	-
Turkey	109,759	100.0	10.5	12.2	-	-	0.1	15.4	-	61.8	-
United Arab Em.	34,490	100.0	13.3	35.9	1.0	-	-	49.8	-	-	-
Others	577,487	100.0	4.4	61.8	0.3	-	1.0	30.3	-	2.2	-
SOUTH ASIA	438,924	100.0	2.1	5.9	2.5	-	-	86.0	-	3.5	-
India	107,152	100.0	5.5	18.4	5.2	-	0.1	70.8	-	-	-
Pakistan	209,903	100.0	0.5	0.9	2.4	-	-	94.6	-	1.6	-
Others	121,868	100.0	2.0	3.4	0.3	-	-	84.4	-	9.9	-
EAST ASIA (MFG)	1,971,490	100.0	13.6	1.2	1.6	2.5	1.2	65.2	1.0	13.8	-
Hong Kong	579,150	100.0	6.7	0.2	0.2	0.7	-	63.1	1.1	28.0	-
Korea Republic	180,104	100.0	33.9	1.9	13.8	-	-	50.4	-	-	-
Philippines	109,813	100.0	8.8	1.5	0.9	-	-	88.0	-	-	-
Singapore	857,226	100.0	17.5	1.7	0.3	4.8	2.7	60.8	1.5	10.8	-
Thailand	245,197	100.0	3.5	1.0	0.9	1.2	0.1	86.4	-	6.8	-
SOUTHEAST ASIA	1,986,065	100.0	1.9	0.6	0.5	1.0	-	94.7	0.4	0.1	0.6
Indonesia	1,367,653	100.0	1.4	0.7	0.6	1.4	-	95.7	-	0.2	-
Malaysia	483,521	100.0	0.6	0.4	0.2	-	-	98.8	-	-	-
Others	134,890	100.0	11.9	0.8	0.6	0.9	-	70.6	6.4	-	8.8
ASIAN CPE	18,027	100.0	1.0	25.7	32.9	-	0.6	39.9	-	-	-
China	4,426	100.0	4.0	25.6	62.0	-	2.5	6.0	-	-	-
Others	13,601	100.0	-	25.7	23.4	-	-	50.9	-	-	-
NES	59,662	100.0	11.6	33.8	0.1	-	-	4.7	49.7	-	-

Table E.03.1. Imports of mineral tar and crude chemicals in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	676,352	100.0	13.6	34.5	1.4	0.8	-	38.9	5.6	4.9	0.3
DEVELOPED MARKET	533,230	100.0	13.6	40.0	0.9	0.9	-	35.7	4.2	4.8	-
North America	29,706	100.0	33.0	41.1	1.1	-	-	5.0	19.8	-	-
Europe North	332,503	100.0	13.8	57.0	1.1	1.1	-	15.3	4.9	6.8	-
Europe South	21,141	100.0	36.9	48.8	-	-	-	-	0.2	14.1	-
Japan	122,980	100.0	5.1	-	-	0.8	-	94.1	-	-	-
Others	26,899	100.0	10.7	3.6	2.7	0.5	-	82.5	-	-	-
EUROPEAN CPE	8,289	100.0	-	30.0	-	-	-	-	-	48.6	21.4
Czechoslovakia	2,320	100.0	-	6.8	-	-	-	-	-	16.6	76.6
USSR	54	100.0	-	100.0	-	-	-	-	-	-	-
Others	5,916	100.0	-	38.4	-	-	-	-	-	61.6	-
LATIN AMERICA	67,070	100.0	21.6	10.5	0.7	-	-	43.3	23.1	0.8	-
Argentina	8,350	100.0	1.9	23.4	4.2	-	-	-	64.1	6.4	-
Brazil	40,036	100.0	16.6	2.9	0.1	-	-	61.3	19.2	-	-
Mexico	2,723	100.0	83.0	12.2	3.6	-	-	-	1.2	-	-
Others	15,961	100.0	33.8	22.6	0.1	-	-	28.2	15.4	-	-
TROPICAL AFRICA	5,313	100.0	6.9	50.2	0.3	10.7	0.1	29.4	1.7	0.5	0.3
Ivory Coast	228	100.0	-	93.0	-	-	-	-	-	-	7.0
Reunion	9	100.0	-	100.0	-	-	-	-	-	-	-
Others	5,075	100.0	7.3	48.2	0.3	11.2	0.1	30.8	1.7	0.5	-
NORTH AFRICA	1,282	100.0	4.0	96.0	-	-	-	-	-	-	-
Algeria	369	100.0	8.4	91.3	-	-	-	-	-	-	-
Egypt	277	100.0	-	100.0	-	-	-	-	-	-	-
Morocco	258	100.0	-	100.0	-	-	-	-	-	-	-
Others	378	100.0	5.3	95.0	-	-	-	-	-	-	-
WEST ASIA	9,367	100.0	38.6	44.1	-	-	-	17.2	-	0.1	-
Lebanon	114	100.0	-	100.0	-	-	-	-	-	-	-
Turkey	4,543	100.0	31.7	68.3	-	-	-	-	-	-	-
United Arab Em.	1,535	100.0	0.1	5.7	-	-	-	94.2	-	-	-
Others	3,176	100.0	68.5	25.9	0.1	-	-	5.2	-	0.3	-
SOUTH ASIA	3,984	100.0	4.4	26.3	0.8	-	-	68.2	-	0.4	-
Burma	16	100.0	-	100.0	-	-	-	-	-	-	-
India	898	100.0	16.5	39.3	3.5	-	-	39.8	-	1.1	-
Others	3,069	100.0	0.9	22.1	-	-	-	76.8	-	0.1	-
EAST ASIA (MFG)	38,300	100.0	0.6	0.9	11.3	1.0	-	86.2	-	-	-
Hong Kong	2,945	100.0	0.4	1.0	0.3	-	-	98.4	-	-	-
Korea Republic	4,150	100.0	2.7	0.1	90.9	0.1	-	6.1	-	-	-
Philippines	18,855	100.0	0.3	0.2	0.7	0.5	-	98.3	-	-	-
Singapore	6,422	100.0	0.1	3.7	5.8	4.3	-	86.1	-	-	-
Thailand	5,928	100.0	0.7	0.7	0.7	-	-	97.9	-	-	-
SOUTHEAST ASIA	1,227	100.0	22.6	17.4	17.2	10.2	-	32.4	0.2	0.1	-
Indonesia	555	100.0	21.6	18.7	28.3	5.2	-	25.6	0.4	-	-
Malaysia	402	100.0	38.3	24.6	5.2	1.2	-	30.6	-	-	-
Others	271	100.0	1.1	3.7	12.2	33.6	-	48.7	-	0.4	-
ASIAN CPE	1,155	100.0	-	90.9	9.2	-	-	-	-	-	-
China	1,155	100.0	-	90.9	9.2	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-
NES	7,135	100.0	-	-	-	1.0	0.1	58.1	-	40.7	-

Table E.03.11. Imports of mineral tar and crude chemicals in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	1,431,934	100.0	11.3	30.5	0.6	0.2	0.2	47.0	2.1	8.3	-
DEVELOPED MARKET	1,296,275	100.0	10.7	31.7	0.2	0.1	0.1	46.8	1.6	8.8	-
North America	48,225	100.0	48.0	17.1	-	-	-	26.1	8.9	-	-
Europe North	773,168	100.0	12.9	50.9	0.1	0.2	0.1	20.8	2.2	12.8	-
Europe South	19,426	100.0	32.7	39.7	-	-	1.9	9.0	0.1	16.5	-
Japan	387,682	100.0	1.4	-	-	-	-	95.6	-	3.0	-
Others	67,774	100.0	5.8	1.7	2.3	0.1	-	90.1	-	-	-
EUROPEAN CPE	8,485	100.0	-	44.2	-	-	-	-	-	55.8	-
Czechoslovakia	828	100.0	-	100.0	-	-	-	-	-	-	-
USSR	387	100.0	-	100.0	-	-	-	-	-	-	-
Others	7,270	100.0	-	34.8	-	-	-	-	-	65.2	-
LATIN AMERICA	31,178	100.0	52.8	19.0	0.3	0.4	-	-	27.5	-	-
Argentina	3,742	100.0	87.7	9.9	0.4	1.0	-	-	1.0	-	-
Brazil	3,368	100.0	79.4	17.9	-	2.6	-	-	-	-	-
Mexico	1,495	100.0	70.0	29.2	0.8	-	-	-	-	-	-
Others	22,572	100.0	41.9	20.0	0.3	-	-	-	37.8	-	-
TROPICAL AFRICA	3,921	100.0	4.8	66.1	0.6	4.1	24.1	0.3	-	-	-
Ivory Coast	412	100.0	-	100.0	-	-	-	-	-	-	-
Reunion	6	100.0	-	100.0	-	-	-	-	-	-	-
Others	3,502	100.0	5.4	62.0	0.7	4.6	27.0	0.3	-	-	-
NORTH AFRICA	8,130	100.0	3.4	95.9	-	-	-	-	0.4	0.2	-
Algeria	2,312	100.0	0.1	99.8	-	-	-	-	-	-	-
Egypt	5,189	100.0	5.2	93.8	-	-	-	-	0.7	0.4	-
Morocco	263	100.0	0.4	99.6	-	-	-	-	-	-	-
Others	367	100.0	2.2	97.8	-	-	-	-	-	-	-
WEST ASIA	6,782	100.0	2.3	32.4	-	1.2	-	64.0	-	0.2	-
Lebanon	29	100.0	-	100.0	-	-	-	-	-	-	-
Turkey	148	100.0	0.7	99.3	-	-	-	-	-	-	-
United Arab Em.	878	100.0	1.1	98.3	-	-	-	0.7	-	-	-
Others	5,727	100.0	2.5	20.2	-	1.4	-	75.7	-	0.2	0.1
SOUTH ASIA	5,492	100.0	1.3	34.7	0.1	0.2	-	63.5	-	0.2	-
Burma	29	100.0	-	100.0	-	-	-	-	-	-	-
India	3,959	100.0	1.2	20.3	0.1	-	-	78.5	-	-	-
Others	1,504	100.0	1.7	71.4	-	0.6	-	25.5	-	0.9	-
EAST ASIA (MFG)	66,256	100.0	9.7	1.2	7.4	0.5	-	81.2	-	-	-
Hong Kong	12,728	100.0	0.5	0.2	0.3	-	-	99.1	-	-	-
Korea Republic	14,707	100.0	29.9	-	31.2	-	-	38.8	-	-	-
Philippines	889	100.0	26.2	32.2	16.5	18.6	-	6.5	-	-	-
Singapore	36,047	100.0	0.1	1.0	0.2	0.5	-	98.2	-	-	-
Thailand	1,885	100.0	89.5	6.5	2.4	-	-	1.5	-	-	-
SOUTHEAST ASIA	3,554	100.0	5.5	6.2	6.9	4.0	-	77.3	-	0.1	-
Indonesia	348	100.0	19.3	40.2	12.4	1.4	-	26.4	-	0.6	-
Malaysia	2,998	100.0	4.4	2.2	4.7	1.1	-	87.7	-	-	-
Others	208	100.0	-	6.7	29.3	50.0	-	13.5	-	-	-
ASIAN CPE	132	100.0	-	25.0	-	-	-	75.0	-	-	-
China	33	100.0	-	100.0	-	-	-	-	-	-	-
Others	99	100.0	-	-	-	-	-	100.0	-	-	-
NES	1,728	100.0	-	-	-	1.6	-	98.3	-	-	-

Table E.03.iii. Imports of mineral tar and crude chemicals in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	517,312	100.0	17.1	55.9	2.0	0.4	1.1	14.4	2.1	7.1	-
DEVELOPED MARKET	483,405	100.0	17.0	57.1	0.5	0.3	1.2	14.2	2.2	7.5	-
North America	44,969	100.0	63.8	28.4	0.1	-	-	-	7.8	-	-
Europe North	343,077	100.0	12.7	74.6	0.6	0.3	1.6	0.6	1.9	7.6	-
Europe South	15,096	100.0	39.0	40.7	-	-	0.1	-	-	20.1	-
Japan	78,474	100.0	4.5	0.2	-	0.3	0.2	84.8	0.7	9.3	-
Others	1,788	100.0	30.1	40.0	19.1	10.7	-	-	-	-	-
EUROPEAN CPE	3,277	100.0	-	100.0	-	-	-	-	-	-	-
Czechoslovakia	780	100.0	-	100.0	-	-	-	-	-	-	-
USSR	197	100.0	-	100.0	-	-	-	-	-	-	-
Others	2,299	100.0	-	100.0	-	-	-	-	-	-	-
LATIN AMERICA	2,998	100.0	43.6	53.8	0.1	-	-	-	2.6	-	-
Argentina	975	100.0	20.7	76.7	-	-	-	-	2.7	-	-
Brazil	403	100.0	36.5	63.3	-	-	-	-	-	-	-
Mexico	646	100.0	86.7	13.3	-	-	-	-	-	-	-
Others	974	100.0	40.8	53.8	0.2	-	-	-	5.2	-	-
TROPICAL AFRICA	2,039	100.0	0.5	99.1	-	-	0.4	-	-	-	-
Ivory Coast	336	100.0	-	100.0	-	-	-	-	-	-	-
Reunion	4	100.0	-	100.0	-	-	-	-	-	-	-
Others	1,698	100.0	0.6	98.9	-	-	0.5	-	-	-	-
NORTH AFRICA	2,581	100.0	65.7	34.1	-	-	-	0.1	-	-	-
Algeria	2,154	100.0	78.6	21.4	-	-	-	-	-	-	-
Egypt	184	100.0	-	100.0	-	-	-	-	-	-	-
Morocco	104	100.0	3.8	96.2	-	-	-	-	-	-	-
Others	139	100.0	-	98.6	-	-	-	1.4	-	-	-
WEST ASIA	2,177	100.0	5.8	86.8	-	-	-	4.4	-	2.9	-
Lebanon	24	100.0	-	100.0	-	-	-	-	-	-	-
Turkey	580	100.0	1.0	99.0	-	-	-	-	-	-	-
United Arab Em.	203	100.0	5.9	93.6	-	-	-	-	-	-	-
Others	1,370	100.0	8.0	80.4	-	-	-	7.0	-	4.6	-
SOUTH ASIA	1,405	100.0	1.1	86.3	1.1	-	-	11.4	-	0.1	-
Burma	4	100.0	-	100.0	-	-	-	-	-	-	-
India	740	100.0	0.9	98.2	0.8	-	-	-	-	-	-
Others	660	100.0	1.2	72.9	1.4	-	-	24.2	-	0.3	-
EAST ASIA (MFG)	11,800	100.0	26.3	8.9	46.8	2.7	-	15.1	-	0.1	-
Hong Kong	41	100.0	56.1	29.3	2.4	-	-	2.4	-	7.3	-
Korea Republic	5,181	100.0	0.3	1.3	98.4	-	-	-	-	-	-
Philippines	329	100.0	9.7	9.4	80.9	-	-	-	-	-	-
Singapore	1,560	100.0	22.6	50.8	5.2	20.2	-	0.3	-	0.8	-
Thailand	4,689	100.0	57.2	3.3	1.7	0.1	-	37.8	-	-	-
SOUTHEAST ASIA	4,576	100.0	0.2	5.8	8.6	1.4	-	83.9	-	-	-
Indonesia	4,438	100.0	0.2	5.5	8.5	0.9	-	84.9	-	-	-
Malaysia	103	100.0	1.0	18.4	13.6	-	-	66.0	-	-	-
Others	36	100.0	-	16.7	11.1	69.4	-	2.8	-	-	-
ASIAN CPE	3,055	100.0	0.4	37.3	62.3	-	-	-	-	-	-
China	3,051	100.0	0.3	37.3	62.4	-	-	-	-	-	-
Others	4	100.0	100.0	-	-	-	-	-	-	-	-
NES	-	-	-	-	-	-	-	-	-	-	-

Table E.04.1. Imports of natural gas in 1975
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	5,496,188	100.0	27.5	35.4	-	2.8	5.4	20.7	4.5	3.6	-
DEVELOPED MARKET	5,052,277	100.0	28.0	37.6	-	2.9	5.6	19.9	2.1	3.9	-
North America	1,449,153	100.0	90.4	0.2	-	-	1.0	3.9	4.5	-	-
Europe North	2,219,906	100.0	0.1	81.3	-	-	9.2	0.2	0.5	8.7	-
Europe South	210,916	100.0	-	42.1	-	-	24.9	19.6	11.1	2.3	-
Japan	1,172,047	100.0	8.9	0.2	-	12.6	0.7	77.1	0.4	-	-
Others	254	100.0	28.0	55.5	-	7.1	-	-	-	-	9.4
EUROPEAN CPE	50,620	100.0	-	10.4	-	-	-	89.6	-	-	-
Czechoslovakia	4,308	100.0	-	100.0	-	-	-	-	-	-	-
Romania	7	100.0	-	100.0	-	-	-	-	-	-	-
Others	46,305	100.0	-	2.1	-	-	-	97.9	-	-	-
LATIN AMERICA	283,150	100.0	33.4	0.8	-	1.1	2.1	14.4	48.2	-	-
Argentina	121,643	100.0	-	1.4	-	2.7	4.9	27.9	63.2	-	-
Brazil	9,120	100.0	-	0.1	-	-	-	73.4	26.5	-	-
Venezuela	26	100.0	61.5	34.6	-	-	-	-	-	-	-
Others	152,362	100.0	62.1	0.4	-	-	-	-	37.5	-	-
TROPICAL AFRICA	7,790	100.0	0.8	34.7	-	1.8	50.7	9.4	0.4	-	2.1
Kenya	7	100.0	-	100.0	-	-	-	-	-	-	-
Nigeria	811	100.0	0.4	41.2	-	-	40.2	-	-	-	18.2
Others	6,972	100.0	0.9	33.9	-	2.0	52.0	10.6	0.5	-	0.2
NORTH AFRICA	30,959	100.0	5.3	70.4	-	-	8.6	2.4	13.3	-	-
Algeria	6,493	100.0	24.9	21.7	-	-	-	-	53.3	-	-
Egypt	8,050	100.0	-	77.0	-	-	23.0	-	-	-	-
Morocco	12,972	100.0	-	84.4	-	-	4.8	5.8	5.0	-	-
Others	3,444	100.0	0.5	93.6	-	-	5.8	-	-	-	-
WEST ASIA	39,240	100.0	0.1	40.3	-	-	13.9	42.2	3.0	0.6	-
Iran	136	100.0	3.7	96.3	-	-	-	-	-	-	-
Saudi Arabia	48	100.0	4.2	58.3	-	-	-	37.5	-	-	-
United Arab Em.	10,697	100.0	-	-	-	-	-	100.0	-	-	-
Others	28,358	100.0	0.2	55.1	-	-	19.3	20.6	4.1	0.8	-
SOUTH ASIA	134	100.0	1.5	6.0	73.1	-	-	18.7	-	-	-
India	4	100.0	50.0	50.0	-	-	-	-	-	-	-
Pakistan	4	100.0	-	100.0	-	-	-	-	-	-	-
Others	124	100.0	-	0.8	79.0	-	-	20.2	-	-	-
EAST ASIA (MFG)	17,552	100.0	1.1	0.3	2.2	1.1	1.2	94.1	-	-	-
Hong Kong	14,628	100.0	1.2	0.1	2.6	-	1.5	94.7	-	-	-
Korea Republic	6	100.0	16.7	16.7	66.7	-	-	-	-	-	-
Philippines	2,160	100.0	-	0.4	-	8.7	-	90.9	-	-	-
Singapore	261	100.0	2.7	1.1	-	0.8	-	95.0	-	-	-
Thailand	496	100.0	0.2	5.2	-	1.0	-	93.5	-	-	-
SOUTHEAST ASIA	12,291	100.0	0.3	2.6	0.8	31.7	-	64.3	-	-	0.3
Indonesia	837	100.0	3.6	17.8	0.4	1.4	-	76.9	-	-	-
Malaysia	3,587	100.0	0.1	1.3	0.3	-	-	98.3	-	-	-
Others	7,866	100.0	-	1.5	1.1	49.5	-	47.5	-	-	0.5
ASIAN CPE	457	100.0	-	-	0.2	-	-	10.9	88.8	-	-
China	407	100.0	-	-	0.2	-	-	-	99.8	-	-
Others	50	100.0	-	-	-	-	-	100.0	-	-	-
NES	1,720	100.0	-	1.3	6.9	66.3	0.3	25.1	-	-	-

Table E.04.11. Imports of natural gas in 1980
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	Percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	10,817,840	100.0	18.3	25.8	0.1	1.8	5.5	33.6	4.7	10.1	-
DEVELOPED MARKET	10,091,808	100.0	19.0	27.2	-	1.7	5.8	34.0	3.4	8.9	-
North America	2,292,731	100.0	78.4	0.5	-	0.2	6.2	1.8	13.0	-	-
Europe North	3,780,467	100.0	-	69.1	-	-	7.1	2.9	0.6	20.4	-
Europe South	555,582	100.0	-	21.5	-	0.5	29.5	22.9	3.0	22.6	-
Japan	3,420,564	100.0	3.6	0.2	-	4.9	0.2	91.0	0.1	-	-
Others	42,464	100.0	0.2	0.4	-	0.2	-	98.4	0.7	-	-
EUROPEAN CPE	201,124	100.0	-	1.0	-	-	-	-	-	99.0	-
Czechoslovakia	734	100.0	-	100.0	-	-	-	-	-	-	-
Romania	1,257	100.0	-	100.0	-	-	-	-	-	-	-
Others	199,133	100.0	-	-	-	-	-	-	-	100.0	-
LATIN AMERICA	280,141	100.0	22.8	0.6	-	2.7	1.9	11.7	60.2	-	-
Argentina	151,971	100.0	-	0.1	-	3.0	3.5	18.5	74.9	-	-
Brazil	17,244	100.0	-	-	-	17.0	0.5	26.3	56.1	-	-
Venezuela	75	100.0	54.7	45.3	-	-	-	-	-	-	-
Others	110,852	100.0	57.6	1.4	-	-	-	0.2	40.7	-	-
TROPICAL AFRICA	12,552	100.0	0.6	31.8	-	2.0	8.0	52.9	4.7	-	-
Kenya	14	100.0	7.1	92.9	-	-	-	-	-	-	-
Nigeria	274	100.0	5.5	94.5	-	-	-	-	-	-	-
Others	12,264	100.0	0.5	30.3	-	2.0	8.2	54.2	4.8	-	-
NORTH AFRICA	59,441	100.0	0.1	52.7	-	1.5	19.0	24.8	1.8	0.1	-
Algeria	24,946	100.0	0.1	21.1	-	3.6	25.2	50.0	-	-	-
Egypt	3,062	100.0	0.2	60.3	-	-	-	30.7	8.8	-	-
Morocco	14,673	100.0	-	89.8	-	-	2.4	2.2	5.5	-	-
Others	16,759	100.0	0.1	65.9	-	-	27.7	6.0	-	0.3	-
WEST ASIA	89,106	100.0	0.2	8.6	-	-	0.3	90.9	-	-	-
Iran	861	100.0	-	100.0	-	-	-	-	-	-	-
Saudi Arabia	278	100.0	14.4	80.6	-	0.7	-	4.7	-	-	-
United Arab Em.	3,645	100.0	0.1	1.2	-	-	-	98.7	-	-	-
Others	84,321	100.0	0.2	7.7	-	-	0.3	91.8	-	-	-
SOUTH ASIA	5,089	100.0	0.3	3.4	2.1	-	-	94.1	-	-	-
India	4,917	100.0	0.3	2.7	-	-	-	97.0	-	-	-
Pakistan	34	100.0	-	100.0	-	-	-	-	-	-	-
Others	138	100.0	0.7	5.1	78.3	-	-	15.9	-	-	-
EAST ASIA (MFG)	59,831	100.0	0.4	0.2	13.3	9.6	-	76.5	-	-	-
Hong Kong	18,763	100.0	0.5	0.1	16.0	-	-	83.4	-	-	-
Korea Republic	11,905	100.0	0.1	0.5	29.8	5.7	-	63.9	-	-	-
Philippines	9,737	100.0	-	0.3	10.0	49.3	-	40.3	-	-	-
Singapore	5,573	100.0	0.2	0.2	3.7	0.5	-	95.4	-	-	-
Thailand	13,852	100.0	0.8	-	1.7	1.8	-	95.7	-	-	-
SOUTHEAST ASIA	15,687	100.0	2.1	2.4	0.1	22.5	-	69.6	1.5	1.7	-
Indonesia	1,688	100.0	1.4	-	0.8	-	-	97.9	-	-	-
Malaysia	8,928	100.0	-	0.5	-	-	-	99.5	-	-	-
Others	5,070	100.0	6.1	6.6	0.1	69.6	-	7.6	4.7	5.2	0.1
ASIAN CPE	3	100.0	-	66.7	-	-	-	33.3	-	-	-
China	2	100.0	-	100.0	-	-	-	-	-	-	-
Others	1	100.0	-	-	-	-	-	100.0	-	-	-
NES	3,060	100.0	0.1	0.7	-	39.5	-	48.4	11.2	-	-

Table E.04.111. Imports of natural gas in 1983
(Per cent, world in constant 1975 thousand US dollars)

Exporting region or country	US dollars	percent									
	World	World	North America	West Europe	Japan	Others	Africa	Asia	Latin America	CPEs	NES
WORLD	11,338,537	100.0	18.8	26.6	0.1	1.4	10.8	30.5	2.2	9.6	-
DEVELOPED MARKET	11,004,244	100.0	18.6	26.9	-	1.5	11.1	29.9	2.2	9.9	-
North America	2,431,573	100.0	74.2	0.6	-	0.3	14.2	1.2	9.6	-	-
Europe North	4,471,878	100.0	0.6	62.0	-	-	16.1	1.7	-	19.6	-
Europe South	584,918	100.0	0.6	24.7	-	-	26.2	12.6	0.2	35.7	-
Japan	3,515,269	100.0	5.9	0.9	-	4.3	-	88.6	0.2	-	-
Others	606	100.0	19.5	43.6	1.2	-	-	36.0	-	-	-
EUROPEAN CPE	135	100.0	-	100.0	-	-	-	-	-	-	-
Czechoslovakia	103	100.0	-	100.0	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-	-	-	-
Others	32	100.0	-	100.0	-	-	-	-	-	-	-
LATIN AMERICA	114,403	100.0	79.3	4.7	-	-	6.2	-	9.8	-	-
Argentina	436	100.0	100.0	-	-	-	-	-	-	-	-
Brazil	11,648	100.0	17.8	27.7	-	-	54.4	-	-	-	-
Venezuela	1,216	100.0	98.1	1.9	-	-	-	-	-	-	-
Others	101,102	100.0	86.1	2.1	-	-	0.7	-	11.1	-	-
TROPICAL AFRICA	10,214	100.0	7.5	45.4	-	16.8	3.4	27.0	-	-	-
Kenya	3	100.0	-	100.0	-	-	-	-	-	-	-
Nigeria	100	100.0	1.0	99.0	-	-	-	-	-	-	-
Others	10,110	100.0	7.5	44.8	-	17.0	3.4	27.3	-	-	-
NORTH AFRICA	32,382	100.0	0.2	90.3	-	-	4.2	5.3	-	-	-
Algeria	4,778	100.0	-	64.0	-	-	-	35.9	-	-	-
Egypt	7,379	100.0	0.9	99.1	-	-	-	-	-	-	-
Morocco	14,781	100.0	-	100.0	-	-	-	-	-	-	-
Others	5,445	100.0	0.1	75.2	-	-	24.7	-	-	-	-
WEST ASIA	84,559	100.0	0.3	11.9	-	-	0.6	87.3	-	-	-
Iran	310	100.0	0.6	99.4	-	-	-	-	-	-	-
Saudi Arabia	411	100.0	34.1	65.7	0.5	-	-	-	-	-	-
United Arab Em.	95	100.0	44.2	44.2	-	-	-	11.6	-	-	-
Others	83,742	100.0	0.1	11.3	-	-	0.6	88.1	-	-	-
SOUTH ASIA	203	100.0	11.3	4.9	13.3	-	-	70.9	-	-	-
India	10	100.0	30.0	70.0	-	-	-	-	-	-	-
Pakistan	2	100.0	-	50.0	-	-	-	-	-	-	-
Others	191	100.0	9.9	0.5	14.1	-	-	75.4	-	-	-
EAST ASIA (MFG)	81,082	100.0	0.7	1.0	8.1	0.7	-	89.4	-	-	-
Hong Kong	22,508	100.0	-	0.1	10.8	1.8	-	87.3	-	-	-
Korea Republic	874	100.0	10.1	79.7	2.1	-	-	8.2	-	-	-
Philippines	897	100.0	0.2	-	2.5	-	-	97.3	-	-	-
Singapore	557	100.0	2.5	1.6	51.3	-	-	44.3	-	-	-
Thailand	56,247	100.0	0.8	0.2	6.8	0.3	-	91.8	-	-	-
SOUTHEAST ASIA	11,144	100.0	0.4	1.1	0.1	7.3	-	91.1	-	-	-
Indonesia	228	100.0	11.8	1.3	5.3	-	-	81.6	-	-	-
Malaysia	9,995	100.0	0.1	0.2	-	-	-	99.6	-	-	-
Others	920	100.0	0.1	10.3	-	88.9	-	0.8	-	-	-
ASIAN CPE	7	100.0	14.3	14.3	57.1	-	-	14.3	-	-	-
China	3	100.0	33.3	-	66.7	-	-	-	-	-	-
Others	3	100.0	-	33.3	66.7	-	-	33.3	-	-	-
NES	165	100.0	1.2	85.5	1.2	-	-	9.1	2.4	-	-

Section F

World export and import price and quantity indices for petrochemicals, 1970, ...,1981; 1975 = 100

Section F presents price and quantity indices for the world trade in petrochemicals, computed by UNIDO. These indices are of the chain-linked Fisher type and are based on unit values calculated from the UNSO Commodity Trade Statistics. They are based on external trade values which have been screened for consistency in terms of units of measurement, and in terms of reporting of both value and quantity. Large and unexplained jumps in unit values from one year to another have been filtered out by the computing algorithm.

Table F.01 World export price and quantity indices for petrochemicals
(Chain linked Fisher indices, 1975=100)

Year	Synthetic rubber		Synthetic fibres		Organic chemicals		Plastics & resins		Carbon black		Surfactants	
	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity
1963	51.7	57.7	94.9	16.8	48.5	25.0	59.9	18.8	49.1	74.6	49.1	32.6
1964	51.6	66.9	94.0	18.9	47.9	31.6	57.9	24.2	48.5	76.1	50.0	35.6
1965	52.1	65.7	91.4	31.2	47.1	39.3	60.0	27.2	49.4	78.5	54.0	35.3
1966	52.7	69.6	83.9	35.4	44.0	47.4	58.6	32.4	48.7	84.5	52.6	41.5
1967	51.4	70.2	74.2	41.1	43.5	52.8	55.9	37.9	49.2	82.3	53.4	46.7
1968	51.4	77.2	69.3	52.8	42.1	64.4	52.1	49.5	49.0	92.7	52.5	57.8
1969	50.5	84.4	69.6	64.1	41.8	73.1	52.6	59.6	50.0	91.9	53.2	66.6
1970	50.5	94.0	66.9	70.2	42.9	80.3	53.9	69.0	50.0	107.3	53.8	71.6
1971	51.7	99.1	63.7	85.8	44.2	84.8	53.7	77.9	51.4	107.8	55.0	79.1
1972	52.9	103.8	66.8	102.3	47.9	93.5	55.1	93.3	55.2	106.6	56.2	87.5
1973	60.8	120.1	80.0	119.5	57.8	107.8	67.4	112.7	61.1	125.9	65.3	96.3
1974	93.0	119.2	115.7	109.9	93.8	124.5	103.9	118.6	89.9	125.5	89.7	108.9
1975	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1976	98.8	118.2	96.3	118.2	95.8	126.3	101.1	127.2	100.5	119.5	95.0	121.6
1977	105.9	130.2	98.8	121.2	101.2	133.6	105.8	134.7	111.1	126.6	100.7	124.7
1978	117.2	136.4	104.3	138.8	106.4	149.2	113.9	145.2	124.9	125.0	110.0	134.4
1979	136.3	158.7	121.4	147.2	142.6	161.4	146.7	160.7	139.9	146.7	127.6	150.7
1980	159.5	154.7	140.0	152.3	166.8	150.5	166.9	159.4	166.0	143.6	141.7	164.5
1981	156.3	149.3	136.0	164.6	160.7	153.0	145.1	163.9	173.5	139.9	127.8	173.6
1982	153.9	142.3	133.4	129.7	152.3	153.9	137.0	164.9	170.6	126.2	123.6	165.9
1983	151.1	148.6	121.6	143.4	145.9	165.9	132.0	186.6	163.0	120.1	116.0	176.8

Table F.02 World import price and quantity indices for petrochemicals
(Chain linked Fisher indices, 1975=100)

Year	Synthetic rubber		Synthetic fibres		Organic chemicals		Plastics & resins		Carbon black		Surfactants	
	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity
1963	59.2	46.4	96.0	9.7	44.7	25.2	56.4	18.1	46.1	67.7	49.0	25.4
1964	57.1	52.4	94.0	16.4	44.2	33.1	54.9	24.1	46.9	82.4	49.3	30.8
1965	55.5	56.6	92.1	21.4	44.4	37.2	55.8	27.3	48.3	85.9	50.0	31.9
1966	56.1	63.6	86.6	28.0	43.6	43.0	55.0	33.3	48.7	89.7	49.4	41.2
1967	54.9	64.1	76.3	31.2	44.3	47.5	52.4	37.8	48.5	87.5	50.6	46.8
1968	53.1	72.7	68.8	44.2	42.7	58.4	48.9	48.4	48.6	98.8	51.4	54.7
1969	52.9	80.7	69.7	54.2	42.1	67.3	49.9	59.0	49.2	99.4	52.9	63.5
1970	51.9	91.6	67.4	60.1	42.9	77.7	51.8	68.9	49.4	104.4	52.5	71.2
1971	52.3	101.7	63.4	72.6	42.8	85.2	51.7	78.4	51.3	105.5	53.2	78.8
1972	55.0	104.1	67.1	91.3	44.5	96.5	54.1	92.8	56.2	102.7	56.3	84.4
1973	61.8	124.0	78.0	119.2	55.0	110.6	66.2	113.8	62.4	124.8	65.7	97.3
1974	93.2	117.4	109.6	114.2	91.8	127.2	101.1	120.7	87.5	135.1	87.6	111.7
1975	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1976	99.0	118.1	95.3	118.2	93.5	124.5	98.9	130.8	102.1	122.6	95.4	121.8
1977	105.6	126.3	97.6	109.8	100.8	127.6	104.8	138.5	115.9	122.4	100.8	124.1
1978	119.4	128.7	124.2	114.5	106.6	140.9	114.4	149.0	131.4	159.2	112.3	135.3
1979	140.1	147.0	120.7	131.7	133.5	163.9	144.3	170.1	146.9	176.2	127.3	151.6
1980	164.8	137.5	137.0	117.8	157.5	150.6	165.3	161.9	169.9	173.6	143.6	154.4
1981	160.1	135.1	131.8	118.1	148.1	157.0	144.9	168.9	174.4	171.4	128.9	165.5
1982	161.4	120.0	133.2	109.9	139.2	152.3	138.9	164.2	166.0	169.1	123.1	161.7
1983	155.5	116.8	122.7	101.7	132.7	149.7	133.6	172.6	155.3	151.2	115.1	163.2

Source: UNIDO Secretariat computations based on unit values from UNSO Commodity Trade Statistics.

Section Q

Capacity utilization for selected petrochemical products in selected countries, 1982 and 1985

Tables Q.01 to Q.05 provide information on capacity utilization for 15 selected products in selected countries. Although the intention is to show capacity utilization for 1982 and 1985 for all products and countries listed, figures for these two years were not always available. If data for 1982 and 1985 were not available for a product or a country, respectively, the next available preceding year is given. The years are indicated in brackets. Figures for 1985 are planned capacity utilization figures. Figures for 1983 and 1984 are either planned or actual figures.

Table Q.01 Capacity utilization: Selected products in selected countries

ntries	Ethylene				Propylene				Benzene			
	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)
Algeria	58.3	(1982)	70.8	(1983)	...		...		...		...	
Argentin	75.4	(1982)	70.0	(1983)	70.0	(1982)	70.0	(1985)	100.7	(1981)	...	
Australi	82.5	(1982)	75.9	(1984)	...		...		...		...	
Austria	80.0	(1979)	...		97.5	(1979)	...		70.0	(1977)	...	
Belgium	...		...		...		...		27.0	(1977)	...	
Brazil	67.8	(1982)	93.7	(1985)	98.6	(1982)	79.0	(1985)	84.7	(1982)	95.5	(1985)
Bulgaria	53.8	(1982)	...		80.6	(1982)	...		50.0	(1977)	...	
Canada	63.9	(1982)	76.4	(1985)	92.4	(1982)	126.7	(1983)	83.7	(1982)	81.3	(1983)
Chile	33.3	(1982)	50.0	(1983)	...		...		15.0	(1982)	5.0	(1983)
China	81.1	(1982)	73.6	(1984)	75.6	(1982)	90.2	(1983)	88.0	(1981)	...	
Colombia	6.9	(1981)	...		1.0	(1976)	...		27.9	(1982)	20.9	(1983)
Czechosl kia	75.0	(1982)	110.6	(1983)	82.0	(1982)	...		93.0	(1982)	...	
Denmark	100.0	(1978)	...		...		...		...		...	
Finland	77.7	(1982)	...		56.6	(1982)	...		46.0	(1982)	...	
France	67.4	(1982)	83.2	(1983)	70.3	(1982)	83.2	(1983)	57.1	(1982)	69.2	(1983)
German D cratic Rep.	43.8	(1982)	...		93.2	(1982)	...		71.4	(1979)	...	
Germany, deral Rep.	64.5	(1982)	89.0	(1983)	57.2	(1982)	88.0	(1983)	68.2	(1982)	61.4	(1984)
Greece	93.3	(1982)	93.3	(1983)	...		...		...		...	
Hungary	93.0	(1982)	...		88.6	(1982)	...		82.7	(1982)	...	
India	70.5	(1982)	67.7	(1985)	74.7	(1982)	76.1	(1985)	66.2	(1982)	80.1	(1985)
Iran	76.9	(1981)	...		66.6	(1981)	...		...		...	
Israel	70.0	(1982)	66.9	(1983)	...		...		35.0	(1982)	25.0	(1983)
Italy	69.5	(1982)	55.1	(1983)	34.4	(1982)	67.4	(1983)	37.3	(1982)	49.3	(1983)
Japan	62.1	(1982)	95.7	(1984)	59.6	(1982)	61.8	(1983)	61.0	(1982)	65.2	(1983)
Korea R blic	74.0	(1982)	96.8	(1985)	83.9	(1982)	100.0	(1985)	90.0	(1982)	57.4	(1985)
Mexico	91.0	(1982)	68.4	(1985)	48.7	(1982)	59.8	(1985)	32.1	(1982)	96.9	(1985)
Nigeria	...		...		...		100.0	(1985)	...		...	
Norway	73.5	(1979)	...		...		...		...		...	
Pakista	...		...		...		...		30.0	(1981)	...	
Peru	60.0	(1982)	60.0	(1985)	...		...		...		...	
Poland	36.4	(1982)	...		78.0	(1982)	...		133.3	(1982)	...	
Qatar	45.0	(1982)	78.5	(1985)	...		...		...		...	
Romania	77.7	(1982)	...		78.4	(1982)	...		87.0	(1982)	...	
Singapo	...		80.0	(1985)	...		77.5	(1985)	...		79.6	(1985)
South A ca	106.6	(1982)	113.3	(1983)	20.8	(1982)	21.6	(1983)	...		...	
Spain	66.7	(1982)	83.5	(1983)	69.8	(1982)	80.4	(1983)	60.3	(1982)	66.8	(1983)
Sweden	57.7	(1981)	...		27.4	(1981)	...		...		...	
Taiwan vince	87.4	(1982)	69.2	(1984)	77.5	(1982)	71.4	(1984)	65.0	(1982)	52.0	(1983)
Turkey	94.5	(1982)	79.5	(1985)	92.5	(1982)	55.2	(1985)	33.3	(1982)	49.2	(1985)
USSR	96.9	(1982)	...		98.1	(1982)	...		84.5	(1982)	...	
U.K.	55.0	(1982)	79.5	(1983)	71.6	(1982)	82.9	(1983)	32.8	(1982)	46.3	(1983)
U.S.A.	59.9	(1982)	85.8	(1985)	51.6	(1982)	69.7	(1985)	41.1	(1982)	59.2	(1984)
Venezue	76.6	(1982)	98.0	(1985)	28.7	(1982)	30.8	(1983)	...		...	
Yugosl	66.7	(1982)	...		64.5	(1982)	...		12.3	(1982)	...	

Source: NIDO database

Table Q.02 Capacity utilization: Selected products in selected countries

Countries	Xylene				Methanol				Styrene			
	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)
Alger	...		...		35.4	(1981)	...		...		...	
Armen	80.0	(1981)	...		100.0	(1981)	...		96.0	(1981)	...	
Austr	...		...		...		...		80.7	(1980)	...	
Brazi	100.0	(1982)	138.5	(1985)	90.8	(1982)	100.0	(1985)	85.9	(1982)	97.8	(1985)
Bulga	88.8	(1982)	...		22.7	(1981)	...		...		...	
Canad	...		96.4	(1983)	...		92.3	(1983)	82.4	(1981)	...	
China	...		...		81.5	(1978)	87.5	(1984)	80.7	(1981)	...	
Colom	18.3	(1982)	18.3	(1983)	...		...		...		...	
Czech ovakia	82.5	(1981)	...		76.6	(1981)	...		97.1	(1980)	...	
Finla	...		...		60.0	(1974)	...		...		...	
Franc	30.2	(1976)	...		97.6	(1977)	...		...		...	
Germa mocratic Rep.	87.5	(1981)	...		88.8	(1982)	...		...		...	
Germa Federal Rep.	82.0	(1976)	98.4	(1984)	55.0	(1977)	...		...		...	
Hunga	95.0	(1981)	...		71.4	(1981)	...		...		...	
India	68.2	(1982)	87.8	(1983)	67.5	(1979)	...		62.8	(1982)	...	
Israe	105.0	(1982)	83.3	(1983)	79.6	(1982)	64.8	(1983)	...		...	
Italy	75.1	(1976)	...		50.6	(1977)	...		38.9	(1980)	...	
Japan	70.4	(1982)	72.6	(1983)	48.8	(1982)	29.1	(1983)	61.7	(1982)	90.0	(1985)
Korea public	109.3	(1982)	43.5	(1985)	31.2	(1982)	24.5	(1983)	81.2	(1982)	33.3	(1985)
Malay	...		...		...		100.0	(1985)	...		...	
Mexic	51.3	(1982)	67.0	(1984)	111.6	(1982)	101.7	(1985)	15.5	(1982)	23.3	(1985)
Norwa	...		...		65.0	(1977)	...		...		...	
Polan	65.4	(1981)	...		84.0	(1981)	...		...		...	
Roman	93.7	(1982)	...		94.6	(1981)	...		48.0	(1980)	...	
Saudi bia	...		...		...		96.0	(1985)	...		...	
Singa	...		79.3	(1985)	...		...		...		...	
South rica	...		...		...		...		105.5	(1980)	...	
Spain	87.5	(1982)	95.0	(1983)	45.0	(1982)	12.0	(1983)	88.0	(1982)	90.0	(1983)
Taiwa rovince	83.0	(1982)	83.3	(1983)	...		...		38.5	(1981)	83.5	(1983)
Turke	...		48.2	(1985)	...		...		40.0	(1978)	...	
USSR	93.5	(1981)	...		84.6	(1982)	...		...		...	
U.S.A	80.3	(1982)	87.6	(1984)	78.8	(1982)	66.1	(1985)	75.9	(1981)	89.2	(1985)
Yugos ia	91.1	(1981)	...		60.5	(1982)	...		28.5	(1982)	...	

Sour UNIDO database

Table Q.03 Capacity utilization: Selected products in selected countries

Countries	Ethylene oxide		Acrylonitrile		PVC	
	Per cent (Year)	Per cent (Year)	Per cent (Year)	Per cent (Year)	Per cent (Year)	Per cent (Year)
	...	...	...	...	100.0 (1982)	...
na	50.0 (1975)	...	...	...	83.3 (1981)	...
la	...	...	...	...	10.8 (1981)	...
	...	...	...	...	73.3 (1977)	...
	88.5 (1982)	85.7 (1985)	95.0 (1982)	97.2 (1985)	90.6 (1982)	101.6 (1985)
a	21.1 (1980)	...	38.5 (1980)	...	60.3 (1982)	...
	...	...	5.0 (1979)	...	69.2 (1982)	91.8 (1984)
	...	...	...	...	66.6 (1979)	...
	...	...	21.6 (1980)	...	94.5 (1980)	91.6 (1984)
a	...	...	...	...	72.7 (1979)	...
lovakia	18.7 (1980)	...	...	...	86.8 (1982)	...
	...	...	...	...	4.0 (1980)	...
	...	...	...	...	90.9 (1982)	...
	65.9 (1976)	...	62.3 (1975)	...	68.5 (1982)	71.1 (1983)
Democratic Rep.	36.6 (1972)	...	...	...	84.0 (1978)	...
, Federal Rep.	66.3 (1980)	75.7 (1983)	90.5 (1979)	...	62.3 (1982)	78.6 (1983)
	...	...	...	...	111.1 (1980)	...
	...	...	...	...	80.1 (1982)	...
	53.5 (1982)	...	75.0 (1982)	...	31.8 (1982)	60.4 (1985)
sia	...	...	...	...	85.1 (1981)	100.0 (1985)
	...	...	...	...	...	100.0 (1985)
	...	...	...	...	65.0 (1982)	93.7 (1985)
	27.3 (1980)	...	36.7 (1980)	...	53.3 (1982)	64.0 (1983)
	63.6 (1982)	90.0 (1985)	60.3 (1982)	90.0 (1985)	58.5 (1982)	89.9 (1985)
Republic	82.5 (1980)	100.0 (1985)	54.5 (1982)	107.7 (1985)	79.9 (1982)	75.7 (1985)
ia	...	...	...	...	66.6 (1982)	90.0 (1985)
	61.7 (1982)	87.5 (1983)	71.6 (1982)	63.2 (1985)	98.5 (1982)	85.9 (1985)
o	...	...	...	...	60.0 (1982)	92.0 (1985)
lands	61.2 (1980)	...	...	...	95.0 (1977)	...
gua	...	...	...	...	73.3 (1981)	...
	...	...	...	...	73.3 (1982)	...
an	...	...	...	...	40.0 (1982)	40.0 (1985)
	...	...	...	...	75.0 (1982)	75.0 (1985)
	20.0 (1976)	...	120.0 (1980)	...	20.7 (1982)	...
al	...	...	...	...	108.5 (1979)	...
	67.3 (1980)	...	64.2 (1981)	...	93.6 (1981)	...
ore	...	30.0 (1985)	...	...	81.8 (1982)	81.8 (1983)
	70.0 (1982)	70.0 (1983)	78.6 (1982)	84.0 (1983)	55.3 (1982)	62.1 (1983)
	65.0 (1980)	...	...	...	74.0 (1982)	...
Province	...	...	85.6 (1982)	98.4 (1984)	98.2 (1982)	73.2 (1983)
	...	...	...	...	80.7 (1982)	63.8 (1985)
	66.6 (1974)	...	71.2 (1977)	...	56.1 (1982)	...
	99.1 (1974)	...	...	...	47.5 (1982)	...
	64.9 (1982)	84.9 (1985)	90.7 (1982)	91.1 (1984)	61.2 (1982)	70.2 (1985)
ela	...	...	...	...	72.5 (1982)	90.0 (1985)
avia	...	...	...	...	41.2 (1982)	...

UNIDO database

Table Q.04 Capacity utilization: Selected products in selected countries

Countries	LDPE and LLDPE				HDPE				Polypropylene			
	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)	Per cent	(Year)
ia	93.7	(1982)	93.7	(1983)	...		...		...		...	
ina	58.3	(1982)	60.0	(1983)	...		...		...		...	
lia	52.5	(1981)	...		95.7	(1980)	67.5	(1983)	65.1	(1979)	72.3	(1983)
ia	87.0	(1977)	...		...		...		...		...	
l	78.3	(1982)	99.4	(1985)	79.4	(1982)	...		95.1	(1982)	99.3	(1985)
ria	94.0	(1981)	...		76.0	(1982)	...		...		...	
a	89.7	(1982)	42.7	(1983)	76.8	(1982)	...		85.2	(1982)	89.7	(1983)
	55.5	(1982)	83.3	(1983)	...		...		...		...	
	103.4	(1982)	88.2	(1984)	21.8	(1982)	13.9	(1983)	87.2	(1982)	112.7	(1984)
bia	60.0	(1977)	...		...		...		...		...	
oslovakia	70.5	(1981)	...		49.2	(1981)	...		112.7	(1982)	...	
rk	80.0	(1977)	...		...		...		...		...	
nd	62.8	(1982)	...		...		...		...		...	
e	85.2	(1980)	...		79.6	(1980)	...		51.4	(1980)	97.9	(1983)
n Democratic Rep.	...		...		100.0	(1982)	...		...		...	
ny, Federal Rep.	...		...		39.4	(1982)	...		55.7	(1980)	...	
ry	88.3	(1981)	...		...		...		100.0	(1982)	...	
	93.7	(1982)	93.7	(1983)	110.0	(1982)	80.0	(1985)	80.0	(1982)	43.6	(1985)
esia	...		...		...		...		16.2	(1980)	27.0	(1985)
	...		41.0	(1985)	...		...		...		40.0	(1985)
l	67.7	(1982)	88.5	(1985)	...		...		...		...	
	78.6	(1980)	...		53.6	(1977)	...		62.4	(1980)	...	
	65.6	(1982)	32.7	(1983)	71.4	(1982)	100.0	(1985)	81.1	(1982)	100.0	(1985)
Republic	70.0	(1982)	100.0	(1985)	85.7	(1982)	100.0	(1985)	87.5	(1982)	100.0	(1985)
o	93.9	(1982)	73.7	(1985)	78.0	(1982)	80.0	(1985)	...		103.8	(1985)
rlands	92.4	(1976)	...		...		...		40.7	(1977)	...	
y	71.2	(1982)	...		80.0	(1982)	...		68.0	(1980)	...	
d	98.3	(1982)	...		...		...		91.6	(1982)	...	
gal	3.0	(1980)	...		...		...		25.0	(1980)	...	
	87.1	(1982)	103.5	(1985)	...		...		...		...	
ia	95.3	(1982)	...		75.0	(1980)	...		...		...	
Arabia	...		...		...		100.0	(1985)	...		...	
Africa	56.0	(1982)	60.0	(1983)	84.0	(1980)	62.5	(1983)	...		...	
	65.5	(1982)	79.5	(1983)	72.1	(1982)	73.8	(1983)	77.0	(1982)	77.3	(1983)
n	66.8	(1981)	...		100.0	(1982)	...		...		...	
n Province	72.0	(1982)	83.7	(1985)	74.0	(1982)	94.1	(1984)	122.0	(1982)	80.0	(1984)
land	...		70.7	(1983)	...		...		...		...	
y	100.0	(1982)	56.4	(1985)	...		50.0	(1985)	...		50.0	(1985)
	100.8	(1981)	...		28.9	(1982)	...		106.6	(1980)	...	
	58.0	(1980)	...		...		100.0	(1983)	48.3	(1980)	76.6	(1983)
A.	76.1	(1982)	83.9	(1985)	70.9	(1982)	90.7	(1985)	70.2	(1982)	85.9	(1985)
zuela	63.7	(1982)	103.4	(1985)	...		85.0	(1985)	...		...	
slavia	31.5	(1982)	18.8	(1984)	92.0	(1982)	...		...		...	

ce: UNIDO database

Table Q.05 Capacity utilization: Selected products in selected countries

Countries	Polystyrene		Synthetic fibres (staple)		Synthetic rubber	
	Per cent (Year)	Per cent (Year)	Per cent (Year)	Per cent (Year)	Per cent (Year)	Per cent (Year)
gentina	100.0 (1981)	...	37.5 (1982)	...	54.6 (1982)	75.0 (1983)
stralia	...	...	1.7 (1979)	...	53.7 (1982)	42.3 (1983)
stria	...	...	76.1 (1982)	114.2 (1983)	83.3 (1982)	83.3 (1983)
lgium	...	...	...	...	74.0 (1982)	72.4 (1983)
zil	48.9 (1982)	90.9 (1985)	73.8 (1982)	...	71.0 (1982)	68.8 (1983)
lgaria	80.0 (1980)	...	83.3 (1982)	...	...	...
nada	83.1 (1982)	63.7 (1983)	...	...	59.6 (1982)	59.3 (1983)
le	50.0 (1982)	50.0 (1983)	20.0 (1982)	...	...	...
na	15.7 (1982)	15.0 (1984)	...	...	...	97.8 (1983)
lombia	80.0 (1982)	80.0 (1983)	80.0 (1982)	...	...	...
ta Rica	...	...	100.0 (1982)	...	...	...
choslovakia	98.4 (1982)	...	64.9 (1982)	...	...	...
uador	...	...	57.1 (1981)	...	...	...
ypt	...	...	8.0 (1982)	...	...	...
nland	83.3 (1982)	...	50.0 (1982)	...	50.0 (1982)	50.0 (1983)
nce	56.1 (1982)	60.5 (1983)	72.7 (1982)	...	70.9 (1982)	75.0 (1983)
rman Democratic Rep.	58.0 (1978)	...	54.4 (1982)	...	...	...
rmany, Federal Rep.	...	...	76.2 (1982)	...	72.1 (1982)	69.6 (1983)
eece	...	...	75.0 (1982)	...	...	...
ngary	...	...	100.0 (1982)	...	...	...
dia	54.1 (1982)	75.0 (1985)	...	...	47.5 (1982)	39.5 (1983)
land	...	...	71.7 (1982)	...	...	...
rael	81.2 (1982)	87.5 (1985)	...	...	...	...
aly	53.5 (1975)	...	63.4 (1982)	...	39.8 (1982)	42.1 (1983)
maica	...	...	...	...	100.0 (1982)	50.0 (1985)
pan	85.6 (1982)	94.3 (1983)	91.2 (1982)	95.0 (1983)	60.4 (1982)	64.2 (1983)
rea Republic	48.9 (1982)	33.3 (1985)	102.6 (1982)	...	51.2 (1982)	72.7 (1983)
laysia	87.5 (1982)	100.0 (1985)	...	...	...	...
xico	78.9 (1981)	79.6 (1985)	66.8 (1982)	...	87.1 (1982)	81.8 (1983)
therlands	66.0 (1975)	...	61.2 (1982)	...	56.7 (1982)	52.1 (1983)
geria	...	...	20.0 (1982)	...	...	...
kistan	...	...	16.6 (1982)	...	...	...
ru	...	...	87.8 (1982)	...	...	...
lippines	0.7 (1975)	...	83.3 (1982)	...	...	...
land	56.6 (1980)	...	73.6 (1982)	...	...	...
rtugal	...	...	78.5 (1982)	...	...	...
mania	80.0 (1980)	...	65.8 (1982)	...	...	...
uth Africa	...	...	90.9 (1982)	...	57.1 (1982)	19.7 (1983)
ain	77.5 (1982)	73.0 (1983)	78.5 (1982)	...	51.0 (1982)	51.0 (1983)
i Lanka	...	...	100.0 (1982)	...	...	...
eden	62.5 (1981)	...	...	...	111.7 (1982)	117.6 (1983)
itzerland	...	...	79.4 (1982)	...	...	...
iwan Province	46.6 (1982)	56.1 (1983)	...	...	60.0 (1982)	58.0 (1983)
iland	...	...	114.2 (1981)	...	...	...
rkey	73.3 (1982)	100.0 (1985)	71.2 (1982)	82.4 (1985)	67.3 (1982)	100.0 (1985)
SR	42.5 (1980)	...	72.2 (1982)	...	...	...
K.	62.5 (1975)	...	57.9 (1982)	...	34.0 (1982)	46.1 (1983)
S.A.	80.4 (1982)	88.4 (1985)	72.4 (1982)	82.2 (1983)	60.6 (1982)	68.1 (1984)
ruguay	...	...	66.6 (1982)	...	...	...
nezuela	57.1 (1982)	59.1 (1985)	66.6 (1982)	...	...	...
goslavia	115.0 (1980)	...	68.3 (1982)	...	...	...

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